Body Builders Layout Book

TRANSIT
WHAT'S NEW

- Updated Weight and Model Lineup
- Vapor Injection Heat pump becomes standard on E-Transit --Updated BEV A/C Guidance
- Upgraded single Electrical Architecture with 5G modem capability
- Reverse Sensing System now standard on all Cargo and Passenger Van series (Rear Park Aid Kit standard in CC/CA)
- Forward Sensing System now standard across all models
- New Rear Taillamps with integrated BLIS sensors (when equipped)

Ford PRO

Body Builders Layout Book

TRANSIT

INDEX

What's New 1
Index 2
Introduction 3

MODEL LINEUP
Passenger Vans 4
Cargo Vans (Regular WB) 5
Cargo Vans LWB 6
Cargo Van ELWB 7
Chassis Cab 10
Cutaway 11

DIMENSIONAL DATA
8-Passenger Van (Regular WB) 14
10-Passenger Van (Regular WB) 15
12-Passenger Van (Regular WB) 16
12-Passenger Van (Long WB) 17
15-Passenger Van (Long WB) 18
15-Passenger Van (Extended Length Long WB) 19
2-Passenger Van 20
Van Dimensional Charts 21
Chassis Cab / Cutaway (138" WB) 23
Chassis Cab / Cutaway (156" WB) 24
Chassis Cab / Cutaway (178" WB) 25
Chassis Cab / Cutaway Dimensional Chart 26
Center Of Gravity Reference Data 27

DESIGN / REOMMENDATION
Second Unit Body Mounting (Gas & BEV) 28
Precautionary Drill Zones Guidance (E-Transit) 30
High Voltage Battery Electrical Vehicle Venting (E-Transit) 31
Back Of Cab Mounting Holes (Cutaway) 32
Surface Area Worksheet (Chassis Cab & Cutaway / SRW & DRW) 33
Seat H-Point (All Models) 34
Aftermarket Partitions/Bulkheads Considerations 35

CLIMATE
Climate Control - GHG Evaporative Emission Specifications 36
Auxiliary A/C & Heater Aftermarket Addition Guidance 37

ELECTRICAL
Trailer Tow Wiring Harness 38
SEIC / PTO Operation 39
SEIC / PTO SCHEMATICS 3.5L & 3.5L GTDI Engines 40
SEIC / PTO Circuit Descriptions 44
Clean Tachometer Output 46

Change Control 47

Body Builders Layout Book

TRANSIT
INTRODUCTION

IMPORTANT NOTICES

The information described herein is believed to be correct at the time of publication, but accuracy cannot be guaranteed. Ford reserves the right to discontinue models or change specifications or designs at any time without notice and without incurring any obligation.

Representations regarding the compliance of any Ford- manufactured incomplete vehicle to any rule, regulation or standard issued pursuant to the National Traffic and Motor Vehicle Safety Act or the Canadian Motor Vehicle Safety Act are set forth only in the Incomplete Vehicle Manual (IVM) which accompanies each incomplete vehicle.

Regulations such as those issued by the Federal Highway Administration (FHA) or issued pursuant to the Occupational Safety and Health Act (OSHA), and/or state, provincial, and local laws and regulations may require installation of additional equipment for the particular use intended for the vehicle. It is the responsibility of the subsequent stage manufacturer or completed vehicle alterer and the vehicle purchaser to ascertain how the vehicle will ultimately be used, if FHA, OSHA or state provincial or local regulations apply and how the vehicle as completed will comply with those requirements. Nothing contained herein is to be construed as a representation that such equipment required for the particular use intended has been installed on the completed or incomplete vehicle.

REFERENCE INFORMATION

Ford Body Builder Advisory Service Publications

This document is an example of a program-specific Body Builders Layout Book (BBLB) published by the Ford Body Builder Advisory Service (BBAS) team. Each Ford Commercial Truck vehicle line has a similar document that aims to provide detailed information which may be of interest to a subsequent-stage manufacturer or alterer.

The Ford Transit also has a Body and Equipment Mounting Manual (BEMM), which is a comprehensive resource dedicated to body and equipment mounting information.

Yet another source of program-specific information are the “Vehicle Specification” documents available on the Ford BBAS website. Information typically found in these documents are vehicle curb and accessory weights, vehicle dimensions, component descriptions, capacities, GAWRs, alternator output, powertrain output and gear ratios.

In addition to the program-specific documents, there are several Ford BBLB documents that contain general best practices or information on specific subjects that span multiple vehicle lines. These include:

- General BBLB - contains Definitions, Design Recommendations and Vehicle Storage Guidelines.
- Snowplow BBLB
- Pickup Box Removal BBLB

These publications are updated every model year and can be accessed via the web at https://www.fordpro.com/en-us/upfit/publications/. For BBLB and BEMM documents, expand the “Body Builder Layout Book” Section to view all available documents. For Vehicle Specifications, expand the “Vehicle Specifications” section. The website search function can be used to filter for specific content or vehicle line.

Ford Body Builder Advisory Service Bulletins

Occasionally, the Ford BBAS team will create an SVE “Bulletin” to address a specific issue or distribute important information in a timely manner. These documents can be accessed via the web at https://www.fordpro.com/en-us/upfit/publications/. The website search function can be used to filter for specific content or vehicle line.

If applicable, information from each SVE bulletin will be incorporated into the appropriate BBLB document the following model year. In some cases, SVE bulletins will continue to be referenced in this document.

Ford Body Builder Advisory Service Contact

The Ford Truck Body Builder Advisory Service may be consulted if questions regarding the completion of Ford commercial vehicles are not adequately addressed in the documentation described above. For assistance call (877) 840-4338 or e-mail via the web at https://www.fordpro.com/en-us/upfit/contact-us/.

For Ford vehicle CAD requests, please visit https://www.fordpro.com/en-us/upfit/cad/.

For both Questions and CAD Requests, please be as specific as possible with the request details to assure the most accurate and timely response.

Ford Service Publications

Ford Service Technical Resources (including wiring diagrams, repair manuals and diagnostic tool support) are available by subscription via the Motorcraft website: www.motorcraftservice.com

The following publications are examples of digital and printed manuals which are available from Helm Incorporated; call 1-800-782-4356 or contact Helm, Inc. at their website www.helminc.com:

- Ford Truck Shop Manuals
- Ford Towing Manuals
- Ford Wiring Diagrams

Body Builders Layout Book

TRANSIT

MODEL LINEUP: PASSENGER VAN

PASSENGER VAN												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Trans	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
LONG 148	LR	3.5L GTDI	10R80	9250	3134	3261	2855	6116	4130	5780	1314	11200
		3.5L GTDI	10R80	9250	2929	3456	2864	6320	4465	5780	1110	11200
		3.5L PFDi	10R80	9250	2992	3409	2849	6258	4465	5780	1172	11200
		3.5L PFDi	10R80	9250	3199	3212	2838	6051	4130	5780	1379	11200
		3.5L GTDI	10R80	9400	3016	3456	2864	6320	4465	5780	1241	11200
		3.5L GTDI	10R80	9400	3222	3261	2855	6116	4130	5780	1014	11200
		3.5L PFDi	10R80	9400	3079	3409	2849	6258	4465	5780	1303	11200
		3.5L PFDi	10R80	9400	3288	3212	2838	6051	4130	5810	1079	11200
		3.5L GTDI	10R80	9550	3166	3456	2864	6320	4465	5830	960	11200
		3.5L PFDi	10R80	9550	3229	3409	2849	6258	4465	5830	1022	11200
	MR	3.5L GTDI	10R80	9250	3134	3261	2855	6116	4130	5780	1314	11200
		3.5L GTDI	10R80	9250	3004	3299	2947	6246	4130	5780	1184	11200
		3.5L PFDi	10R80	9250	2863	3448	2939	6386	4465	5780	1044	11200
		3.5L PFDi	10R80	9250	3070	3251	2929	6179	4130	5780	1251	11200
		3.5LGTDI	10R80	9400	2885	3493	2956	6450	4465	5780	1111	11200
		3.5L GTDI	10R80	9400	3088	3303	2946	6249	4130	5780	881	11200
		3.5L PFDi	10R80	9400	2949	3448	2939	6386	4465	5780	1175	11200
		3.5L PFDi	10R80	9400	3077	3256	2930	6186	4130	5780	944	11200
		3.5L GTDI	10R80	9500	3188	3303	2946	6249	4130	5780	981	11200
		3.5L PFDi	10R80	9500	3177	3256	2930	6186	4130	5780	1044	11200
		3.5L GTDI	10R80	9550	3032	3498	2955	6453	4465	5830	827	11200
		3.5L PFDi	10R80	9550	3092	3453	2940	6393	4465	5830	887	11200
	HR	3.5L GTDI	10R80	9250	2858	3305	3087	6391	4130	5780	1039	11200
		3.5L GTDI	10R80	9250	2654	3500	3096	6596	4465	5780	834	11200
		3.5L PFDi	10R80	9250	2717	3453	3080	6532	4465	5780	898	11200
		3.5L PFDi	10R80	9250	2924	3256	3070	6325	4130	5780	1105	11200
		3.5LGTDI	10R80	9400	2738	3500	3096	6596	4465	5780	965	11200
		3.5L GTDI	10R80	9400	2944	3305	3087	6391	4130	5780	739	11200
		3.5L PFDi	10R80	9400	2802	3453	3080	6532	4465	5780	1029	11200
		3.5L PFDi	10R80	9400	2987	3256	3068	6324	4130	5780	806	11200
		3.5L PFDi	10R80	9500	3087	3256	3068	6324	4130	5780	906	11200
		3.5L GTDI	10R80	9550	2953	3453	3078	6531	4465	5830	749	11200
		3.5L GTDI	10R80	9550	2888	3500	3096	6596	4465	5830	684	11200
		3.5L GTDI	10R80	10100	3071	3152	3806	6958	4630	6725	872	11200
		3.5L GTDI	10R80	10360	3401	3152	3806	6958	4630	6725	983	11200
		3.5L GTDI	10R80	10360	3102	3347	3839	7186	4465	6725	755	11200

Note: 3.5L GTDI is EcoBoost V6 variant

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CARGO VAN (REGULAR WB)

CARGO VAN												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
130	LR	3.5L PFDi	RWD	8670	3716	2947	2007	4954	4130	5070	2607	12000
		3.5L GTDI		8670	3650	2995	2024	5019	4130	5070	2542	12600
		3.5L PFDi	AWD	8670	3519	3140	2010	5150	4630	5070	2411	12000
		3.5L GTDI		8670	3452	3190	2027	5218	4630	5070	2343	12600
		3.5L PFDi	RWD	8800	3796	2947	2007	4954	4130	5070	2607	12000
		3.5L PFDi	AWD	8800	3598	3140	2010	5150	4630	5070	2411	12000
		3.5L GTDI		8800	3530	3190	2027	5218	4630	5070	2343	12600
		3.5L PFDi	RWD	9070	4116	2947	2007	4954	4130	5515	2607	12000
		3.5L GTDI		9070	4050	2995	2024	5019	4130	5515	2542	12600
		3.5L PFDi	AWD	9070	3919	3140	2010	5150	4630	5515	2411	12000
		3.5L GTDI		9070	3852	3190	2027	5218	4630	5515	2343	12600
		3.5L PFDi	RWD	9150	4146	2947	2007	4954	4130	5515	2607	12000
		3.5L PFDi	AWD	9150	3948	3140	2010	5150	4630	5515	2411	12000
		3.5L GTDI		9150	3880	3190	2027	5218	4630	5515	2343	12600
		3.5L PFDi	RWD	9500	4496	2947	2007	4954	4130	5750	2607	12000
		3.5L GTDI		9500	4430	2995	2024	5019	4130	5750	2542	12600
		3.5L PFDi	AWD	9500	4298	3140	2010	5150	4630	5750	2411	12000
		3.5L GTDI		9500	4230	3190	2027	5218	4630	5750	2343	12600

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CARGO VAN (LWB)

CARGO VANS LWB												
					MAX	Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
LONG 148	LR	3.5L PFDi	RWD	8,670	3613	3038	2018	5056	4130	5070	2505	12000
		3.5L GTDI			3546	3089	2034	5123	4130	5070	2438	12600
		3.5L PFDi	AWD		3406	3235	2028	5263	4630	5070	2298	12000
		3.5L GTDI			3342	3284	2044	5328	4630	5070	2233	12600
		3.5L PFDi	RWD	8,800	3693	3038	2018	5056	4130	5070	2505	12000
		3.5L PFDi	AWD		3484	3235	2028	5263	4630	5070	2298	12000
		3.5L GTDI			3419	3284	2044	5328	4630	5070	2233	12600
		3.5L PFDi	RWD	9,070	4013	3038	2018	5056	4130	5515	2505	12000
		3.5L GTDI			3945	3088	2036	5124	4630	5515	2437	12600
		3.5L PFDi	AWD		3806	3235	2028	5263	4630	5515	2298	12000
		3.5L GTDI			3741	3283	2046	5329	4630	5515	2232	12600
		3.5L PFDi	RWD	9,150	4043	3038	2018	5056	4130	5515	2505	12000
		3.5L GTDI			3974	3088	2036	5124	4630	5515	2437	12600
		3.5L PFDi	AWD		3834	3235	2028	5263	4630	5515	2298	12000
		3.5L GTDI			3768	3283	2046	5329	4630	5515	2232	12600
		3.5L PFDi	RWD	9500	4393	3038	2018	5056	4130	5750	2505	12000
		3.5L GTDI			4342	3088	2019	5107	4630	5750	2454	12600
		3.5L PFDi	AWD		4184	3235	2028	5263	4630	5750	2298	12000
		3.5L GTDI			4127	3284	2036	5320	4630	5750	2241	12600
		3.5L GTDI	RWD	9,900	4793	3038	2018	5056	4630	6300	2505	12000
		3.5L GTDI			4742	3088	2019	5107	4630	6300	2454	12600
		3.5L PFDi	AWD		4584	3235	2028	5263	4630	6300	2298	12000
		3.5L GTDI			4527	3284	2036	5320	4630	6300	2241	12600
		3.5L PFDi	RWD	9,950	4843	3038	2018	5056	4630	6300	2505	12000
		3.5L GTDI			4792	3088	2019	5107	4630	6300	2454	12600
		3.5L PFDi	AWD		4634	3235	2028	5263	4630	6300	2298	12000
		3.5L GTDI			4577	3284	2036	5320	4630	6300	2241	12600
	MR	3.5L PFDi	RWD	8,670	3465	3074	2130	5204	4130	5070	2357	12000
		3.5L GTDI			3399	3123	2147	5270	4130	5070	2291	12600
		3.5L PFDi	AWD		3258	3271	2140	5411	4630	5070	2150	12000
		3.5L GTDI			3195	3318	2157	5475	4630	5070	2086	12600
		3.5L PFDi	RWD	8,800	3543	3074	2130	5204	4130	5070	2357	12000
		3.5L GTDI			3476	3123	2147	5270	4130	5070	2291	12600
		3.5L PFDi	AWD		3334	3271	2140	5411	4630	5070	2150	12000
		3.5L GTDI			3270	3318	2157	5475	4630	5070	2086	12600
		3.5L PFDi	RWD	9,070	3865	3074	2130	5204	4130	5515	2357	12000
		3.5L GTDI			3799	3123	2147	5270	4630	5515	2291	12600
		3.5L PFDi	AWD		3658	3271	2140	5411	4630	5515	2150	12000
		3.5L GTDI			3595	3318	2157	5475	4630	5515	2086	12600
		3.5L PFDi	RWD	9,150	3893	3074	2130	5204	4130	5515	2357	12000
		3.5L GTDI			3826	3123	2147	5270	4630	5515	2291	12600
		3.5L PFDi	AWD		3684	3271	2140	5411	4630	5515	2150	12000
		3.5L GTDI			3620	3318	2157	5475	4630	5515	2086	12600

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CARGO VAN (LWB)

CARGO VANS LWB												
					MAX	Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
LONG 148	MR	3.5L PFDi	RWD	9,500	4243	3074	2130	5204	4130	5750	2357	12000
		3.5L GTDI			4185	3122	2140	5262	4630	5750	2299	12600
		3.5L PFDi	AWD		4034	3271	2140	5411	4630	5750	2150	12000
		3.5L GTDI			3970	3318	2157	5475	4630	5750	2086	12600
		3.5L PFDi	RWD	9,900	4643	3074	2130	5204	4630	6300	2357	12000
		3.5L GTDI			4585	3122	2140	5262	4630	6300	2299	12600
		3.5L PFDi	AWD		4434	3271	2140	5411	4630	6300	2150	12000
		3.5L GTDI			4370	3318	2157	5475	4630	6300	2086	12600
		3.5L PFDi	RWD	9950	4693	3074	2130	5204	4630	6300	2357	12000
		3.5L GTDI			4635	3122	2140	5262	4630	6300	2299	12600
		3.5L PFDi	AWD		4484	3271	2140	5411	4630	6300	2150	12000
		3.5L GTDI			4420	3318	2157	5475	4630	6300	2086	12600
	HR	3.5L PFDi	RWD	9070	3770	3100	2199	5299	4130	5515	2262	12000
		3.5L GTDI			3704	3151	2214	5365	4630	5515	2196	12600
		3.5L PFDi	AWD		3563	3297	2209	5506	4630	5515	2055	12000
		3.5L GTDI			3500	3346	2224	5570	4630	5515	1991	12600
		3.5L PFDi	RWD	9,150	3797	3100	2199	5299	4130	5515	2262	12000
		3.5L GTDI			3731	3151	2214	5365	4630	5515	2196	12600
		3.5L PFDi	AWD		3588	3297	2209	5506	4630	5515	2055	12000
		3.5L GTDI			3524	3346	2224	5570	4630	5515	1991	12600
		3.5L PFDi	RWD	9500	4147	3100	2199	5299	4130	5750	2262	12000
		3.5L GTDI			4095	3150	2201	5351	4630	5750	2210	12600
		3.5L PFDi	AWD		3938	3297	2209	5506	4630	5750	2055	12000
		3.5L GTDI			3880	3346	2218	5564	4630	5750	1997	12600
		3.5L PFDi	RWD	9,900	4547	3100	2199	5299	4630	6300	2262	12000
		3.5L GTDI			4495	3150	2201	5351	4630	6300	2210	12600
		3.5L PFDi	AWD		4338	3297	2209	5506	4630	6300	2055	12000
		3.5L GTDI			4280	3346	2218	5564	4630	6300	1997	12600
		3.5L PFDi	RWD	9,950	4597	3100	2199	5299	4630	6300	2262	12000
		3.5L GTDI			4545	3150	2201	5351	4630	6300	2210	12600
		3.5L PFDi	AWD		4388	3297	2209	5506	4630	6300	2055	12000
		3.5L GTDI			4330	3346	2218	5564	4630	6300	1997	12600

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Body Builders Layout Book

TRANSIT

MODEL LINEUP: CARGO VAN (ELWB)

CARGO VANS ELWB													
					MAX	Base Curb Weight			GAWR				
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
EXTENDED 148	HR	3.5L PFDi	RWD	9,070	3567	2974	2528	5502	4130	5660	2059	12000
		3.5L GTDI			3502	3019	2549	5567	4130	5660	1994	12600
		3.5L PFDi	AWD		3360	3171	2539	5709	4630	5660	1852	12000
		3.5L GTDI			3298	3214	2558	5772	4630	5660	1789	12600
		3.5L PFDi	RWD	9,150	3592	2974	2528	5502	4130	5660	2059	12000
		3.5L GTDI			3527	3019	2549	5567	4130	5660	1994	12600
		3.5L PFDi	AWD		3383	3171	2539	5709	4630	5660	1852	12000
		3.5L GTDI			3320	3214	2558	5772	4630	5660	1789	12600
		3.5L PFDi	RWD	9,500	3942	2974	2528	5502	4130	6000	2059	12000
		3.5L GTDI			3877	3019	2549	5567	4130	6000	1994	12600
		3.5L PFDi	AWD		3733	3171	2539	5709	4630	6000	1852	12000
		3.5L GTDI			3670	3214	2558	5772	4630	6000	1789	12600
		3.5L PFDi	RWD	9,900	4301	2978	2566	5543	4630	6300	2018	12000
		3.5L PFDi	AWD		3898	3178	2764	5942	4630	6835	1619	12000
		3.5L GTDI	RWD		4277	3019	2549	5567	4630	6300	1994	13000
		3.5L PFDi	AWD		4068	3174	2599	5773	4630	6300	1788	12000
		3.5L PFDi	RWD		4131	2981	2731	5712	4630	6835	1849	12000
		3.5L PFDi	RWD	9,950	4351	2978	2566	5543	4630	6300	2018	12000
		3.5L GTDI	RWD		4113	3027	2752	5778	4630	6835	1783	13000
		3.5L PFDi	AWD		3948	3178	2764	5942	4630	6835	1619	12000
		3.5L GTDI	AWD		3884	3222	2784	6006	4630	6835	1555	13000
		3.5L GTDI	RWD		4223	3052	2618	5669	4630	6300	1892	13000
		3.5L PFDi	AWD		4118	3174	2599	5773	4630	6300	1788	12000
		3.5L PFDi	RWD		4181	2981	2731	5712	4630	6835	1849	12000
		3.5L GTDI	AWD		3994	3246	2650	5897	4630	6300	1664	13000
		3.5L GTDI	RWD	11,000	5103	3055	2783	5838	4630	7700	2103	13000
		3.5L GTDI	AWD		4873	3250	2816	6065	4630	7700	1876	13000

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CARGO VAN - BEV

CARGO VANS												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Trans	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
148	LR	BEV-89.9 kWH	AUTO	9500	3320	3116	3002	6119	4130	6000	1442	0
	MR	BEV-89.9 kWH	AUTO	9500	3170	3152	3114	6267	4130	6000	1294	0
	HR	BEV-89.9 kWH	AUTO	9500	3074	3153	3209	6362	4130	6000	1199	0
148 EL	HR	BEV-89.9kWH	AUTO	9500	2869	3026	3538	6565	4130	6000	996	0

TRANSIT

MODEL LINEUP: CHASSIS CAB

CHASSIS CAB											
				MAX	Base Curb Weight			GAWR			
WB (in)	Eng	Drive	GVWR (Lbs)	Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
138	3.5L PFDi	RWD	9,070	4796	3006	1268	4273	4130	5515	3257	12000
	3.5L GTDI			4722	3059	1288	4348	4130	5515	3182	12600
	3.5L PFDi	AWD		4589	3201	1280	4480	4630	5515	3050	12000
	3.5L GTDI			4515	3254	1300	4555	4630	5515	2975	12600
	3.5L PFDi	RWD	9,500	5226	3006	1268	4273	4130	5750	3257	12000
	3.5L GTDI			5152	3059	1288	4348	4130	5750	4232	12600
	3.5L PFDi	AWD		5019	3201	1280	4480	4630	5750	3050	12000
	3.5L GTDI			4945	3254	1300	4555	4630	5750	4025	12600
	3.5L GTDI	RWD	9,900	5373	3068	1458	4527	4630	6835	3577	13000
	3.5L GTDI	AWD		5148	3263	1488	4751	4630	6835	3353	13000
	3.5L PFDi	RWD	9,950	5497	3015	1438	4452	4630	6835	3078	12000
	3.5L GTDI			5423	3068	1458	4527	4630	6835	3577	13000
	3.5L PFDi	AWD		5273	3210	1467	4677	4630	6835	2853	12000
	3.5L GTDI			5198	3263	1488	4751	4630	6835	3353	13000
	3.5L GTDI	RWD	11,000	6438	3059	1502	4562	4630	7275	4918	15000
	3.5L GTDI	AWD		6225	3256	1519	4775	4630	7275	4705	15000
156	3.5L PFDi	RWD	9,070	4756	3048	1265	4313	4130	5515	3217	12000
	3.5L GTDI			4682	3101	1286	4387	4130	5515	3143	12600
	3.5L PFDi	AWD		4554	3239	1276	4515	4630	5515	3015	12000
	3.5L GTDI			4480	3293	1297	4590	4630	5515	2940	12600
	3.5L PFDi	RWD	9,500	5185	3049	1265	4314	4130	5750	3216	12000
	3.5L GTDI			5111	3102	1286	4388	4130	5750	4192	12600
	3.5L PFDi	AWD		4983	3240	1276	4516	4630	5750	3014	12000
	3.5L GTDI			4909	3294	1297	4591	4630	5750	3989	12600
	3.5L GTDI	RWD	9,900	5346	3102	1451	4553	4630	6835	3551	13000
	3.5L GTDI	AWD		5126	3294	1479	4773	4630	6835	3331	13000
	3.5L GTDI	RWD	9,950	5396	3102	1451	4553	4630	6835	3551	13000
	3.5L GTDI	AWD		5176	3294	1479	4773	4630	6835	3331	13000
	3.5L PFDi	RWD		5470	3049	1430	4479	4630	6835	3051	12000
	3.5L PFDi	AWD		5251	3240	1459	4699	4630	6835	2831	12000
	3.5L GTDI	RWD	11,000	6342	3153	1504	4657	4630	7275	4823	15000
	3.5L GTDI	AWD		6134	3346	1520	4866	4630	7275	4614	15000
	BEV	RWD	9,500	4200	3041	2258	5300	4130	6000	3280	0

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CHASSIS CAB

CHASSIS CAB											
					Base Curb Weight			GAWR			
WB (in)	Eng	Drive	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
178	3.5L PFDi	RWD	9,500	5080	3130	1289	4420	4130	5750	3110	12000
	3.5L GTDI			5006	3184	1310	4494	4130	5750	4086	13000
	3.5L GTDI	RWD	9,900	5237	3187	1475	4663	4630	6835	3441	13000
	3.5L GTDI	AWD		5013	3382	1504	4886	4630	6835	3218	13000
	3.5L PFDi	RWD	9,950	5361	3134	1454	4588	4630	6835	2942	12000
	3.5L GTDI			5287	3187	1475	4663	4630	6835	3441	13000
	3.5L PFDi	AWD		5137	3328	1484	4812	4630	6835	2718	12000
	3.5L GTDI			5063	3382	1504	4886	4630	6835	3218	13000
	3.5L GTDI	RWD	11,000	6271	3214	1515	4729	4630	7275	4751	15000
	3.5L GTDI	AWD		6058	3409	1532	4941	4630	7275	4539	15000
	BEV	RWD	9,500	4025	3228	2246	5474	4130	6000	3106	0

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CUTAWAY

CUTAWAY												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
138		3.5L PFDi	RWD	9,070	4816	2995	1258	4253	4130	5515	3277	12000
		3.5L GTDI			4742	3049	1279	4328	4130	5515	3202	12600
		3.5L PFDi	AWD		4609	3190	1271	4461	4630	5515	3069	12000
		3.5L GTDI			4535	3244	1291	4535	4630	5515	2995	12600
		3.5L PFDi	RWD	9,500	5246	2995	1258	4253	4130	5750	3277	12000
		3.5L GTDI			5172	3049	1279	4328	4130	5750	4252	12600
		3.5L PFDi	AWD		5039	3190	1271	4461	4630	5750	3069	12000
		3.5L GTDI			4965	3244	1291	4535	4630	5750	4045	12600
		3.5L GTDI	RWD	9,900	5406	3048	1445	4494	4630	6835	3610	13000
		3.5L GTDI	AWD		5181	3243	1475	4718	4630	6835	3386	13000
		3.5L PFDi	RWD	9,950	5530	2995	1425	4419	4630	6835	3111	12000
		3.5L PFDi	AWD		5306	3190	1454	4644	4630	6835	2886	12000
		3.5L GTDI			5231	3243	1475	4718	4630	6835	3386	13000
		3.5L GTDI	RWD	11,000	6452	3052	1496	4547	4630	7275	4933	15000
		3.5L GTDI	AWD		6239	3248	1513	4761	4630	7275	4719	15000
156		3.5L PFDi	RWD	9,070	4756	3048	1265	4313	4130	5515	3217	12000
		3.5L GTDI			4682	3101	1286	4387	4130	5515	3143	12600
		3.5L PFDi	AWD		4554	3239	1276	4515	4630	5515	3015	12000
		3.5L GTDI			4480	3293	1297	4590	4630	5515	2940	12600
		3.5L PFDi	RWD	9,500	5187	3047	1265	4312	4130	5750	3218	12000
		3.5L GTDI			5113	3101	1286	4387	4130	5750	4193	12600
		3.5L PFDi	AWD		4985	3239	1276	4515	4630	5750	3015	12000
		3.5L GTDI			4910	3293	1297	4589	4630	5750	3991	12600
		3.5L GTDI	RWD	9,900	5344	3104	1451	4555	4630	6835	3549	13000
		3.5L GTDI			5124	3296	1479	4775	4630	6835	3329	13000
		3.5L PFDi	RWD	9,950	5468	3051	1430	4481	4630	6835	3049	12000
		3.5L GTDI			5394	3104	1451	4555	4630	6835	3549	13000
		3.5L GTDI	AWD		5249	3242	1459	4701	4630	6835	2829	12000
		3.5L GTDI			5174	3296	1479	4775	4630	6835	3329	13000
		3.5L GTDI	RWD	11,000	6343	3153	1503	4656	4630	7275	4824	15000
		3.5L GTDI	AWD		6135	3346	1519	4865	4630	7275	4615	15000
		BEV	RWD	9,500	4201	3040	2258	5298	4130	6000	3282	-

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CUTAWAY

CUTAWAY											
					Base Curb Weight			GAWR			
WB (in)	Eng	Drive Type	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
138	3.5L PFDi	RWD	9,070	4816	2995	1258	4253	4130	5515	3277	12000
	3.5L GTDI			4742	3049	1279	4328	4130	5515	3202	12600
	3.5L PFDi	AWD		4609	3190	1271	4461	4630	5515	3069	12000
	3.5L GTDI			4535	3244	1291	4535	4630	5515	2995	12600
	3.5L PFDi	RWD	9,500	5246	2995	1258	4253	4130	5750	3277	12000
	3.5L GTDI			5172	3049	1279	4328	4130	5750	4252	12600
	3.5L PFDi	AWD		5039	3190	1271	4461	4630	5750	3069	12000
	3.5L GTDI			4965	3244	1291	4535	4630	5750	4045	12600
	3.5L GTDI	RWD	9,900	5406	3048	1445	4494	4630	6835	3610	13000
	3.5L GTDI	AWD		5181	3243	1475	4718	4630	6835	3386	13000
	3.5L PFDi	RWD	9,950	5530	2995	1425	4419	4630	6835	3111	12000
	3.5L PFDi	AWD		5306	3190	1454	4644	4630	6835	2886	12000
	3.5L GTDI			5231	3243	1475	4718	4630	6835	3386	13000
	3.5L GTDI	RWD	11,000	6452	3052	1496	4547	4630	7275	4933	15000
	3.5L GTDI	AWD		6239	3248	1513	4761	4630	7275	4719	15000
156	3.5L PFDi	RWD	9,070	4756	3048	1265	4313	4130	5515	3217	12000
	3.5L GTDI			4682	3101	1286	4387	4130	5515	3143	12600
	3.5L PFDi	AWD		4554	3239	1276	4515	4630	5515	3015	12000
	3.5L GTDI			4480	3293	1297	4590	4630	5515	2940	12600
	3.5L PFDi	RWD	9,500	5187	3047	1265	4312	4130	5750	3218	12000
	3.5L GTDI			5113	3101	1286	4387	4130	5750	4193	12600
	3.5L PFDi	AWD		4985	3239	1276	4515	4630	5750	3015	12000
	3.5L GTDI			4910	3293	1297	4589	4630	5750	3991	12600
	3.5L GTDI	RWD	9,900	5344	3104	1451	4555	4630	6835	3549	13000
	3.5L GTDI	AWD		5124	3296	1479	4775	4630	6835	3329	13000
	3.5L GTDI	RWD	9950	5394	3104	1451	4555	4630	6835	3549	13000
	3.5L GTDI	AWD		5174	3296	1479	4775	4630	6835	3329	13000
	3.5L PFDi	RWD		5468	3051	1430	4481	4630	6835	3049	12000
	3.5L GTDI	RWD	11,000	6343	3153	1503	4656	4630	7275	4824	15000
	3.5L GTDI	AWD		6135	3346	1519	4865	4630	7275	4615	15000
	BEV	RWD	9,500	4201	3040	2258	5298	4130	6000	3282	

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CUTAWAY

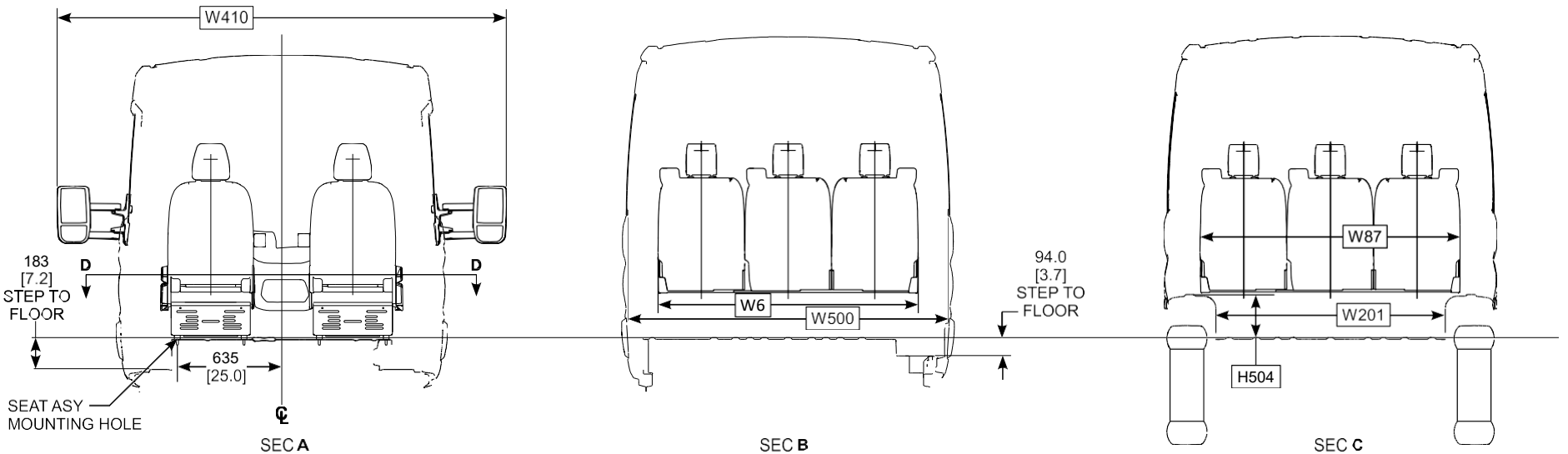
CUTAWAY												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
178		3.5L GTDi	AWD	9,500	4819	3355	1326	4680	4630	5750	3900	13000
			RWD		5043	3160	1296	4456	4130	5750	4124	13000
		3.5L PFDi	AWD		4893	3301	1305	4606	4630	5750	2924	12000
			RWD		5117	3106	1276	4382	4130	5750	3148	12000
		3.5L GTDI	AWD	9,900	5051	3358	1491	4849	4630	6835	3255	13000
			RWD		5274	3163	1462	4625	4630	6835	3479	13000
		3.5L GTDI	AWD	9,950	5101	3358	1491	4849	4630	6835	3255	13000
			RWD		5324	3163	1462	4625	4630	6835	3479	13000
		3.5L PFDi	AWD		5175	3304	1470	4775	4630	6835	2755	12000
			RWD		5399	3110	1441	4551	4630	6835	2979	12000
		3.5L GTDI	AWD	11,000	6122	3367	1510	4877	4630	7275	4603	15000
			RWD		6335	3172	1493	4665	4630	7275	4815	15000
		BEV	RWD	9,500	4063	3204	2233	5437	4130	6000	3143	0

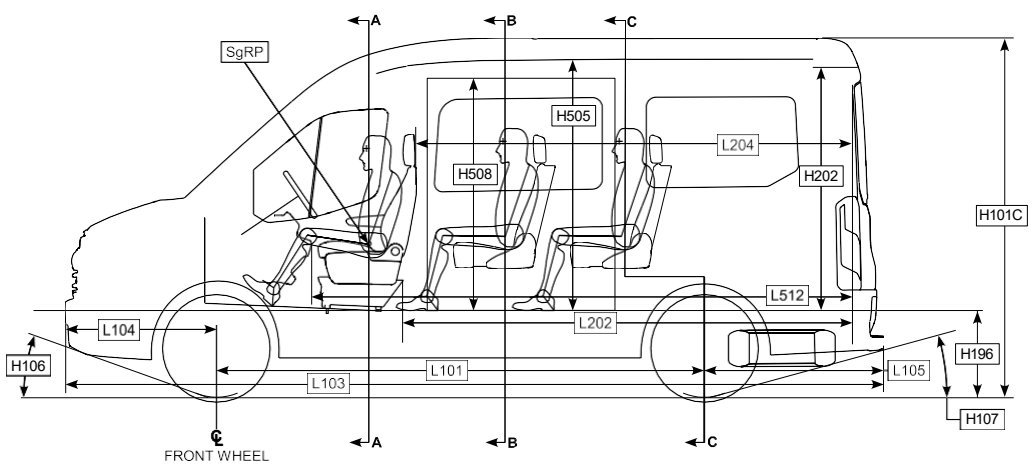
Ford PRO

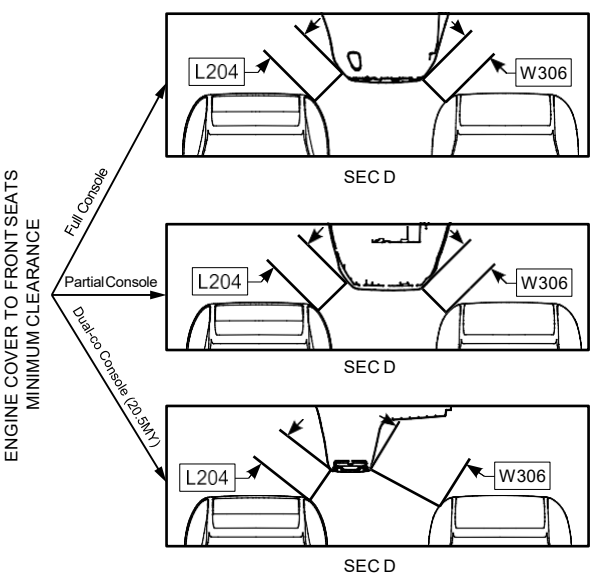
Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: 8-PASSENGER VAN (REGULAR WB)



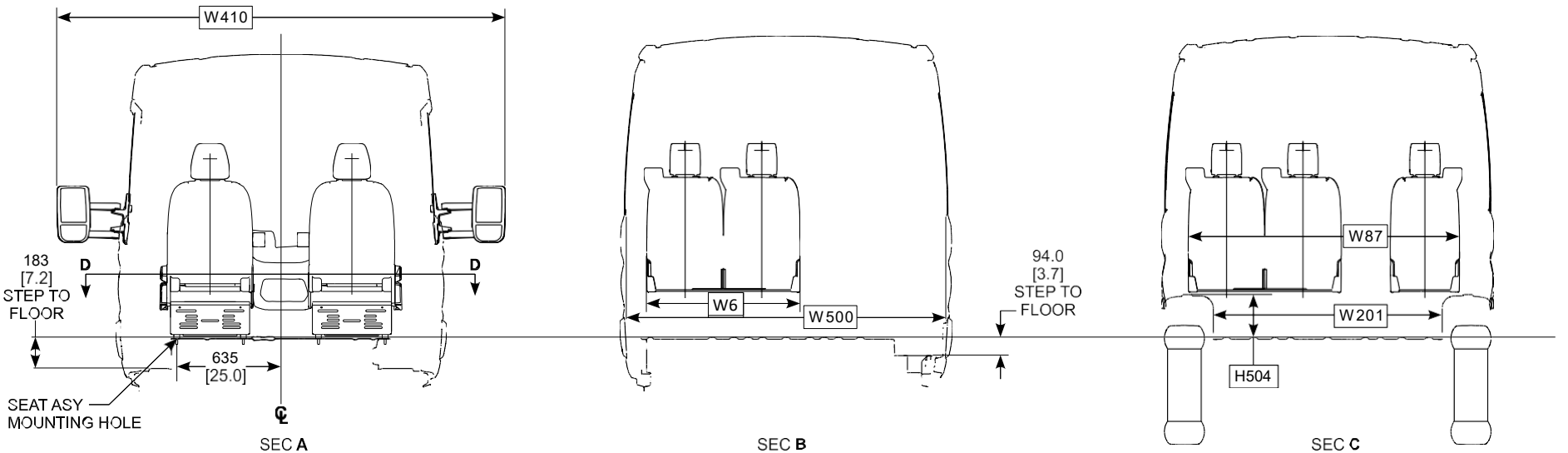


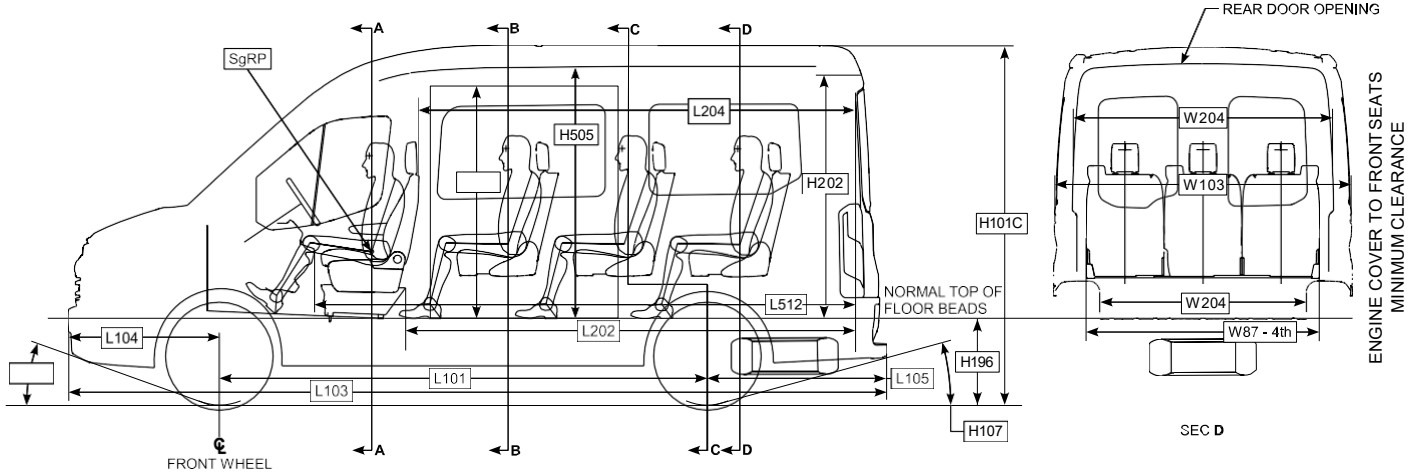


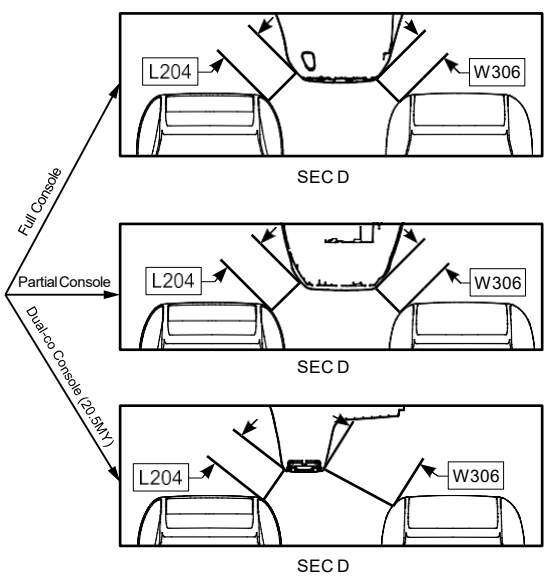
NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DIMENSIONAL DATA: 10-PASSENGER VAN (REGULAR WB)







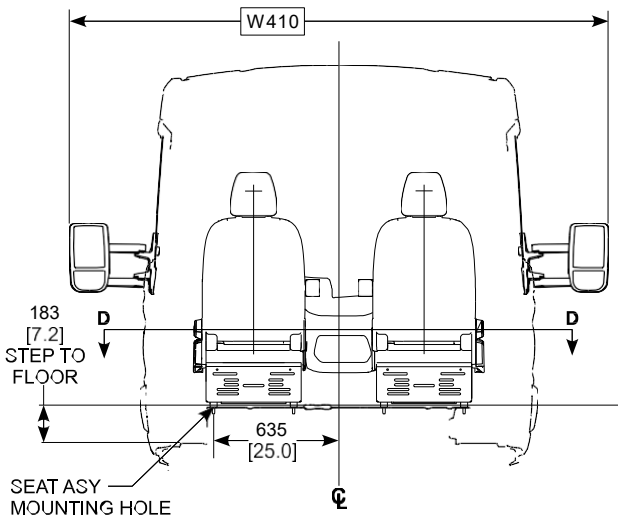
NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

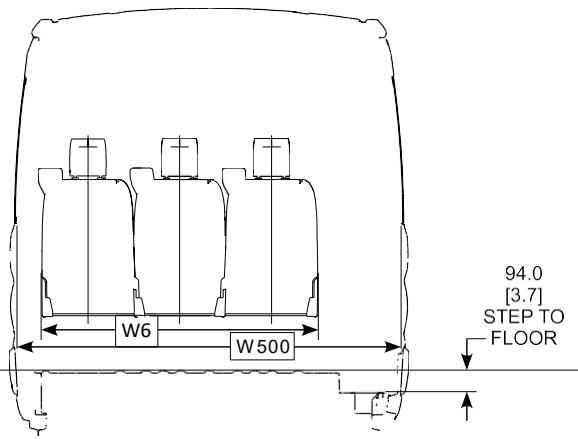
Body Builders Layout Book

TRANSIT

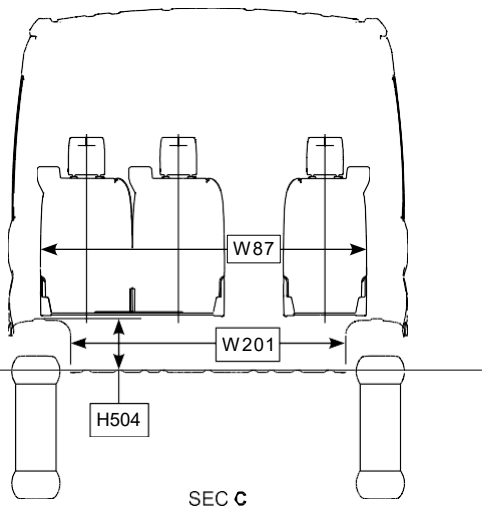
DIMENSIONAL DATA: 12-PASSENGER VAN (REGULAR WB)



SEC **A**



SEC **B**



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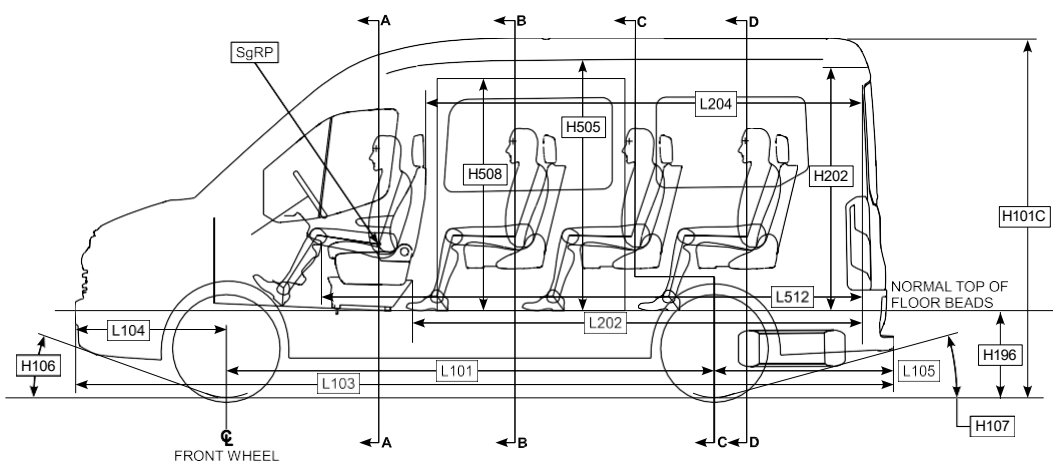
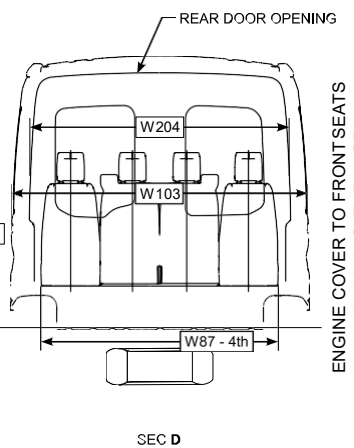
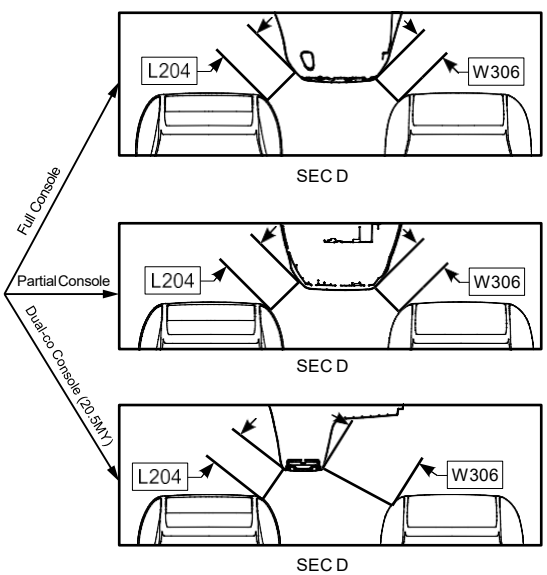




SEC **D**

ENGINE COVER TO FRONT SEATS
MINIMUM CLEARANCE



SEC **D**

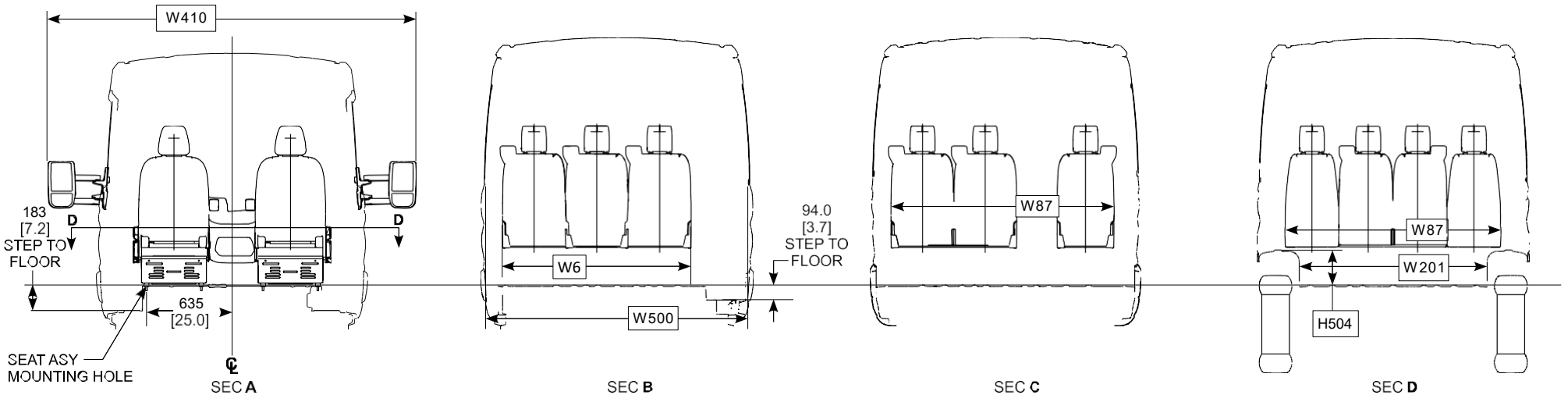
SEC **D**

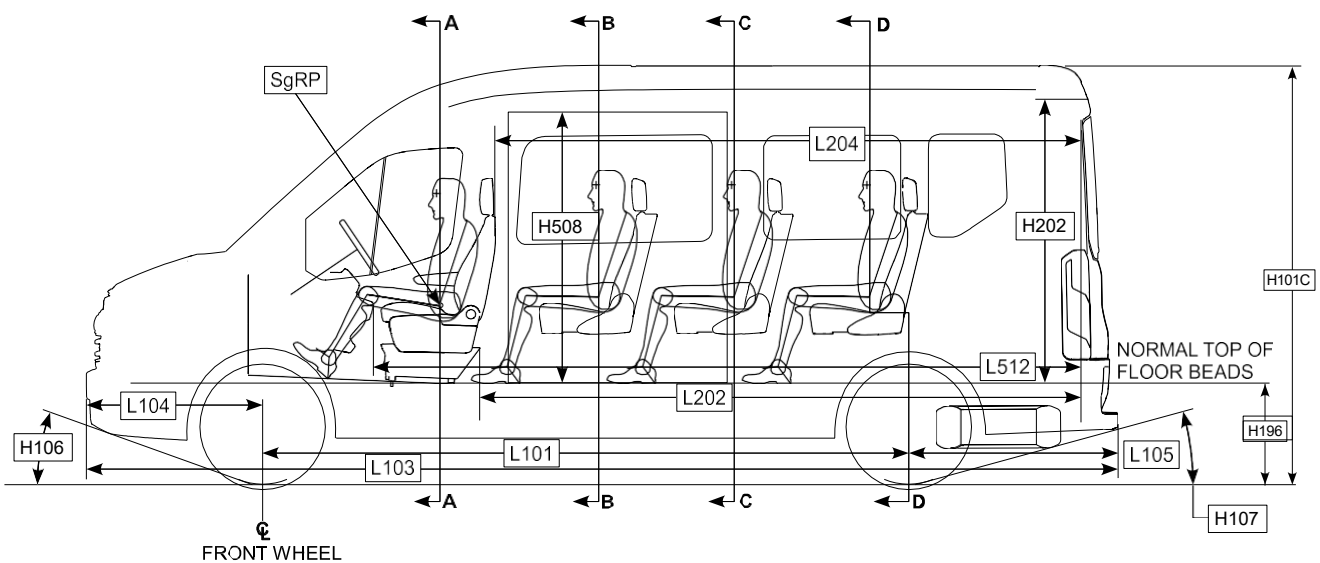
SEC **D**

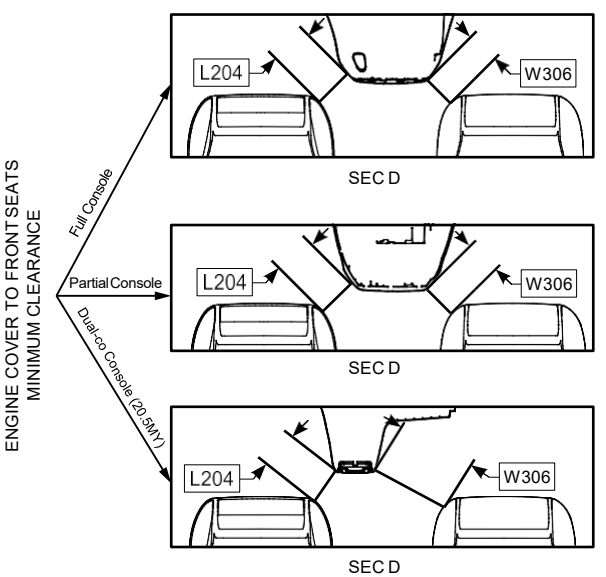
NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DIMENSIONAL DATA: 12-PASSENGER VAN (LONG WB)





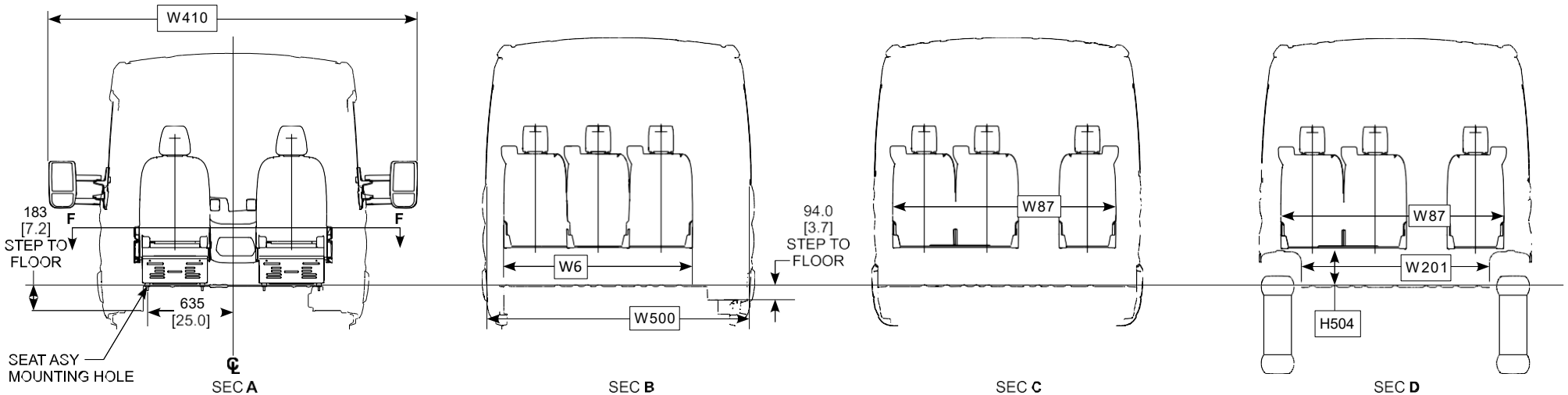


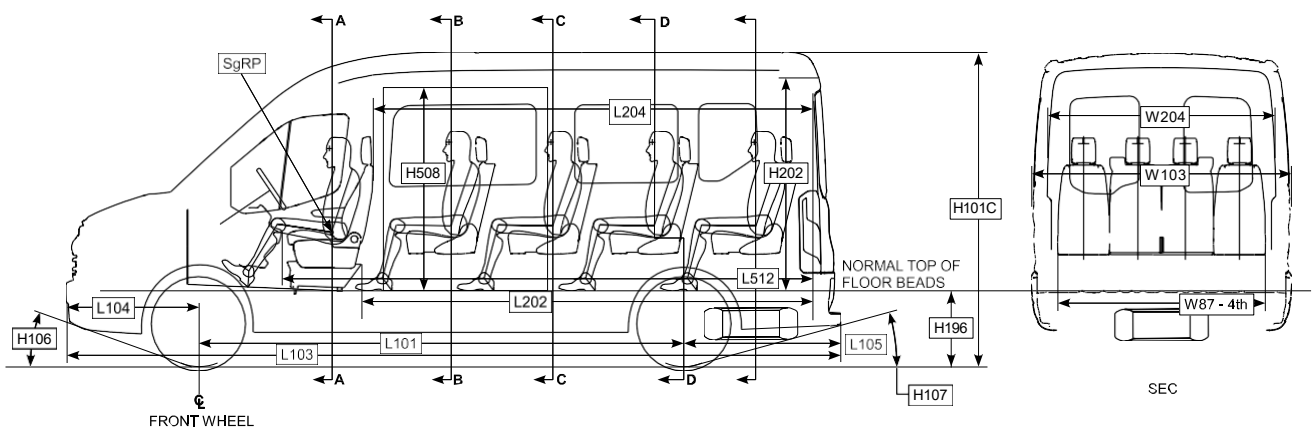
NOTE- [ ] DIMENSION ARE INCHES

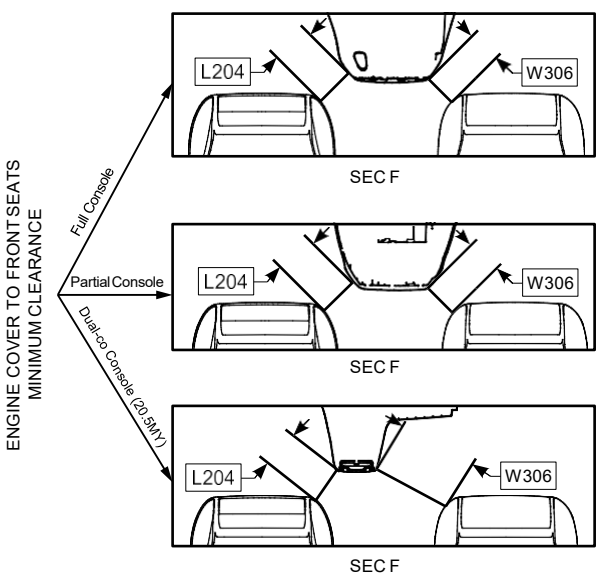
Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: 15-PASSENGER VAN (LONG WB)







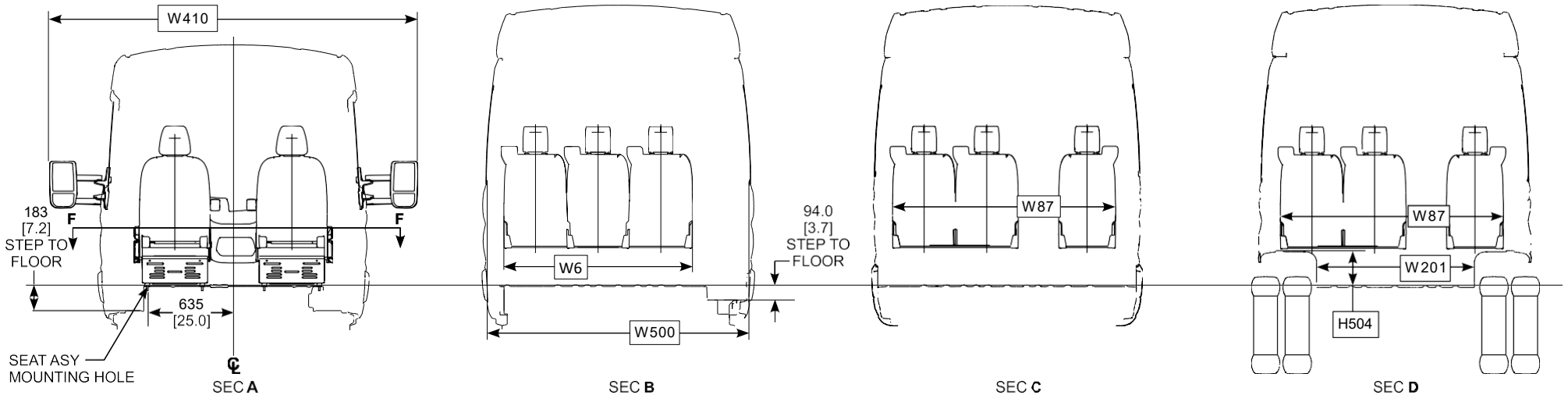
NOTE- [ ] DIMENSION ARE INCHES

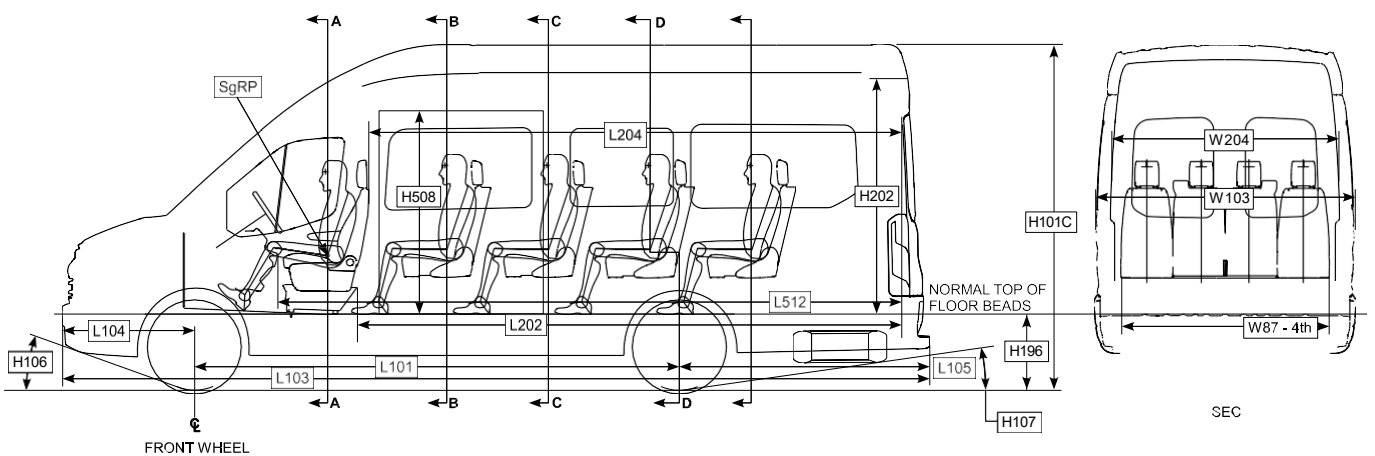
Ford PRO

Body Builders Layout Book

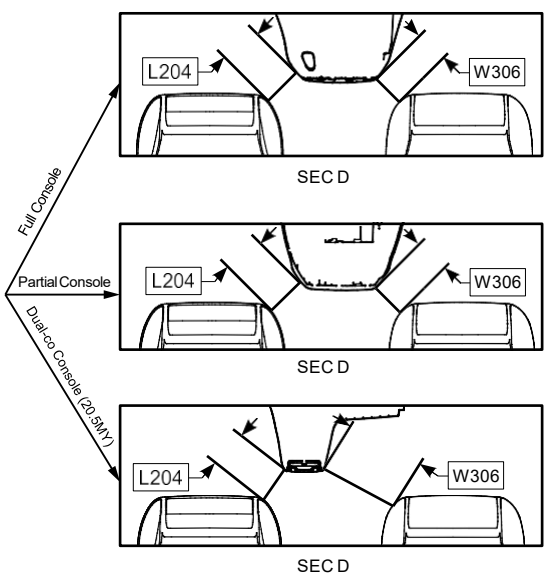
TRANSIT

DIMENSIONAL DATA: 15-PASSENGER VAN (EXTENDED LENGTH LONG WB)





ENGINE COVER TO FRONT SEATS
MINIMUM CLEARANCE

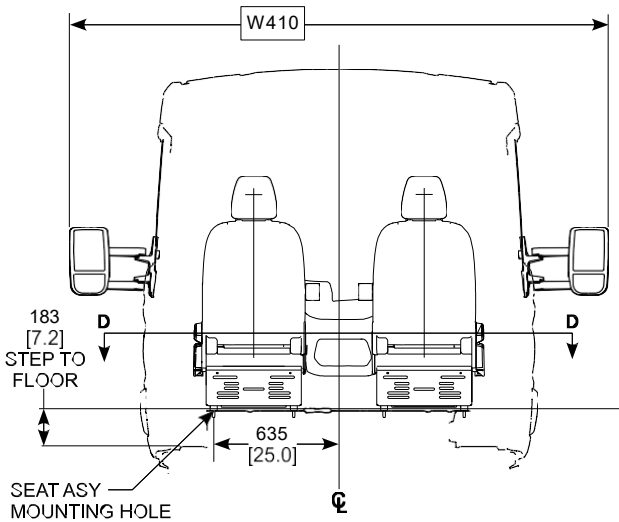


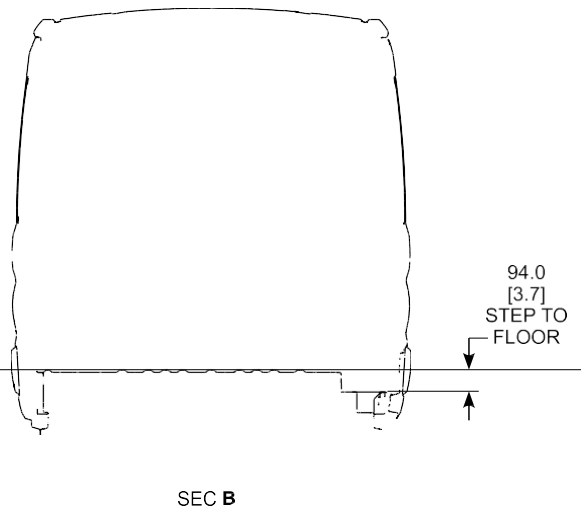
NOTE- [ ] DIMENSION ARE INCHES

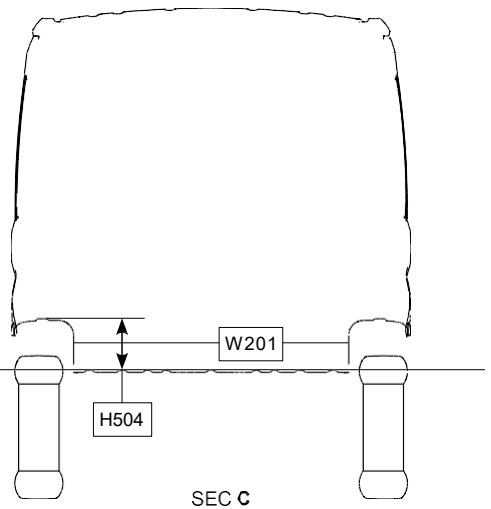
Body Builders Layout Book

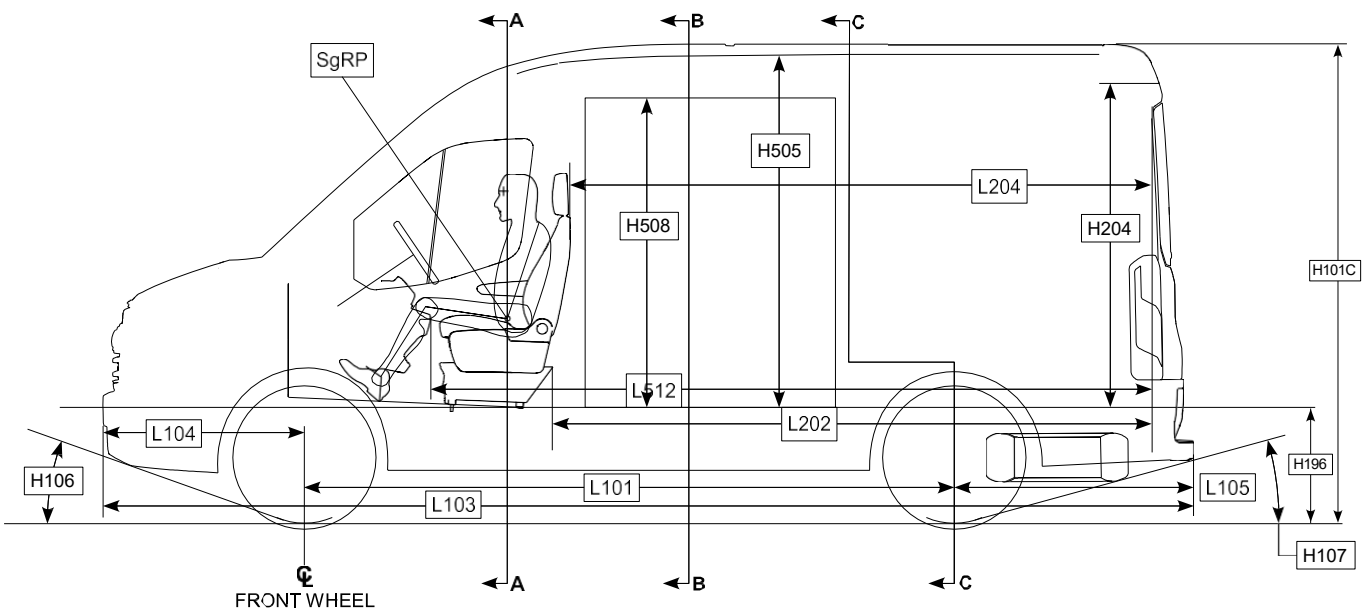
TRANSIT

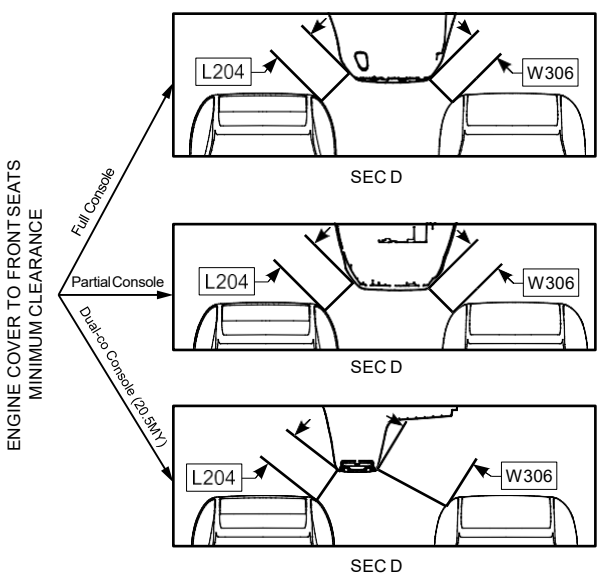
DIMENSIONAL DATA: 2-PASSENGER VAN











NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: VAN DIMENSONAL CHART (SAE)

	Wheelbase (Medium, Long, Ext. Length)	Medium	Medium	Medium	Medium	Medium	Medium	Long	Long	Long	Long	Long	Long	Long	Long	Long	Ext. Length	Ext. Length	Medium	Medium	Long	Long	Long	Ext. Length
	Passenger (Pass.) / Cargo Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van
	Roof (Low , Medium, High)	Low	Medium	Low	Low	Medium	Medium	Low	Medium	High	Low	Low	Medium	Medium	High	High	High	High	Low	Medium	Low	Medium	High	High
	Passenger Capacity (2, 5, 8, 10, 12, 15)	2	2	8	10	8	10	2	2	2	12	15	12	15	12	15	2	15	2	2	2	2	2	2
	Rows of Seating	1	1	3 (2-3-3)	4 (2-2-3-3)	3 (2-3-3)	4 (2-2-3-3)	1	1	1	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	1	5 (2-3-3-3-4)	1	1	1	1	1	1
Dim Code	**EXTERIOR**																							
L101	Wheelbase [in]	129.9	129.9	129.9	129.9	129.9	129.9	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	129.9	129.9	147.6	147.6	147.6	147.6
L103	Length [in]	219.9	217.8	219.9	219.9	217.8	217.8	237.6	235.5	235.5	237.6	237.6	235.5	235.5	235.5	235.5	263.9	263.9	219.9	217.8	237.6	235.5	235.5	263.9
L103	Length w ith optional extended bumper [mm]	-	219.9	-	-	219.9	219.9	-	237.6	237.6	-	-	237.6	237.6	237.6	237.6	266.1	266.1	-	219.9	-	237.6	237.6	266.1
H101C	Height [in]	82.3	98.8	82.2	82.2	98.7	98.7	82.9	99.8	109.6	82.4	82.4	99.2	99.2	108.6	108.6	109.4	107.7	82.2	99.1	82.9	101.3	109.6	110.4
W103	Width - Excluding Mirrors [in]	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	-
W410	Width - Including Mirrors [in]	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
W411	Width - Mirrors Folded [in]	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
W101C	Front Track [in]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	-
W102C	Rear Track [in]	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	-
L104	Front Overhang [in]	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
L105	Rear Overhang [in]	49.7	47.6	49.7	49.7	47.6	47.6	49.7	47.6	47.6	49.7	49.7	47.6	47.6	47.6	47.6	76	76	49.7	47.6	49.7	47.6	47.6	76
L105	Rear Overhang with optional extended bumper [in]	-	49.7	-	-	49.7	49.7	-	49.7	49.7	-	-	49.7	49.7	49.7	49.7	78.1	78.1	-	49.7	-	49.7	49.7	78.1
H196	Load Height (Curb) [in]	28.2	28.2	28.2	28.2	28.2	28.2	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	27.8	27.8	28.9	28.9	28.7	28.7	28.7	28
H508	Side Cargo Door Opening Height [in]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.6	63	49.6	63	63	63
L508	Side Cargo Door Opening Width - Hinged [in]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.2	51.2	51.2	51.2	51.2	51.2
L508	Side Cargo Door Opening Width - Sliding [in]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.2	51.2	51.2	51.2	51.2	51.2
H202	Rear Cargo Door Opening Height [in]	46.9	62.8	46.9	46.9	62.8	62.8	46.9	62.8	72.2	46.9	46.9	62.8	62.8	72.2	72.2	72.2	72.2	49.5	64.9	49.5	64.9	74.3	74.3
W203	Rear Cargo Door Opening Width [in]	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	61.7	61.7	61.7	61.7	61.7	61.7
H106	Approach Angle (Degrees)	19.24	20	19.24	1.24	19.24	20	19.34	19.76	19.96	19.34	19.34	19.76	19.76	19.96	19.96	19.94	19.94	18.8	18.79	19.68	16.63	19.98	20.3
H107	Departure Angle (Degrees)	16.6	16.55	16.6	16.6	16.55	16.55	17.68	15.85	15.72	17.68	17.68	15.85	15.85	15.72	15.72	11.8	11.8	19.3	19.02	18.95	18.76	18.64	11.91
H147	Break over Angle (Degrees)	18.83	18.76	18.83	18.83	18.76	18.76	16.53	15.34	15.2	16.53	16.53	15.34	15.34	15.2	15.2	15.2	15.2	19.4	19.8	17.82	17.65	17.47	17.69
Dim Code	**INTERIOR**																							
H61	Head Room - First Row [in]	40.8	52	40.8	40.8	52	52	40.8	52	56.6	40.8	40.8	52	52	56.6	56.6	56.6	56.6	40.8	52	40.8	52	56.6	56.6
H63	Head Room - Second Row [in]	-	-	41.1	41.1	55.8	55.8	-	-	-	41.1	41.1	55.8	55.8	65.2	65.2	-	65.2	-	-	-	-	-	-
H86	Head Room - Third Row [in]	-	-	40.6	40.6	55.8	55.8	-	-	-	40.6	40.6	55.8	55.8	65.2	65.2	-	65.2	-	-	-	-	-	-
H86-4th	Head Room - Fourth Row [in]	-	-	-	38.7	-	55.8	-	-	-	38.7	38.7	55.8	55.8	65.2	65.2	-	65.2	-	-	-	-	-	-
H86-5th	Head Room - Fifth Row [in]	-	-	-	-	-	-	-	-	-	-	38.1	-	52.6	-	61.3	-	61.3	-	-	-	-	-	-
L33	Maximum Leg Room - First Row [in]	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
L34	Leg Room - First Row [in]	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
L51	Leg Room - Second Row [in]	-	-	33.7	33.7	33.7	33.7	-	-	-	33.7	33.7	33.7	33.7	33.7	33.7	-	33.7	-	-	-	-	-	-
L86	Leg Room - Third Row [in]	-	-	35.6	35.6	35.6	35.6	-	-	-	35.6	35.6	35.6	35.6	35.6	35.6	-	35.6	-	-	-	-	-	-
L86-4th	Leg Room - Fourth Row [in]	-	-	-	35.6	-	35.6	-	-	-	35.6	35.6	35.6	35.6	35.6	35.6	-	35.6	-	-	-	-	-	-
L86-5th	Leg Room - Fifth Row [in]	-	-	-	-	-	-	-	-	-	-	35.6	-	35.6	-	35.6	-	35.6	-	-	-	-	-	-
W5	Hip Room - First Row [in]	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
W6	Hip Room - Second Row [in]	-	-	69.6	69.6	69.6	69.6	-	-	-	69.6	69.6	69.6	69.6	69.6	69.6	-	69.6	-	-	-	-	-	-
W86	Hip Room - Third Row [in]	-	-	67.3	67.3	67.3	67.3	-	-	-	67.3	67.3	67.3	67.3	67.3	67.3	-	67.3	-	-	-	-	-	-
W86-4th	Hip Room - Fourth Row [in]	-	-	-	68	-	68	-	-	-	68	68	68	68	68	68	-	68	-	-	-	-	-	-
W86-5th	Hip Room - Fifth Row [in]	-	-	-	-	-	-	-	-	-	-	68	-	68	-	68	-	68	-	-	-	-	-	-
W3	Shoulder Room - First Row [in]	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
W4	Shoulder Room - Second Row [in]	-	-	71.4	71.4	71.4	71.4	-	-	-	71.4	71.4	71.4	71.4	71.4	71.4	-	71.4	-	-	-	-	-	-
W85	Shoulder Room - Third Row [in]	-	-	67	67	67	67	-	-	-	67	67	67	67	67	67	-	67	-	-	-	-	-	-
W85-4th	Shoulder Room - Fourth Row [in]	-	-	-	67.8	-	67.8	-	-	-	67.8	67.8	67.8	67.8	67.8	67.8	-	67.8	-	-	-	-	-	-
W85-5th	Shoulder Room - Fifth Row [in]	-	-	-	-	-	-	-	-	-	-	67.8	-	67.8	-	67.8	-	67.8	-	-	-	-	-	-
L202	Cargo Length Front (at Floor) [in]	124	124	124	124	124	124	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	170.2	170.2	126	126	143.7	143.7	143.7	172.2
L204	Cargo Length Front (at Belt) [in]	115.1	115.1	115.1	115.1	115.1	115.1	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	161.3	161.3	115.9	115.9	133.6	133.6	133.6	162
W201	Cargo Width Betw een Wheelhouse [in]	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	54.8	54.8	54.8	54.8	54.8	
H505	Cargo Height Maximum [in]	52.8	67.6	52.8	52.8	67.6	67.6	52.8	67.6	77	52.8	52.8	67.6	67.6	77	77	77	77	56.9	72	56.9	72	81.5	81.5
Dim Code	**CARGO CAPACITY**																							
V6	Cargo Volume Behind First Row (Van)	224.5	292.7	224.5	224.5	292.7	292.7	256.4	336.1	382.6	256.4	223.5	336.1	303.1	382.6	349.6	461.9	425.4	275	351.4	309.5	398.1	450.7	543.2
V7	Cargo Volume Behind Second Row (Van)	-	-	151.8	151.8	197.9	197.9	-	-	-	183	150	239.8	206.8	273	240.1	-	313.1	-	-	-	-	-	-
V9	Cargo Volume Behind Third Row (Van)	-	-	94.2	94.2	125	125	-	-	-	124.5	91.5	166.9	133.9	190	157	-	230	-	-	-	-	-	-
V12	Cargo Volume Behind Fourth Row (Van)	-	-	-	-	-	-	-	-	-	70.1	48.9	93.9	72.8	107	85.8	-	184	-	-	-	-	-	-
V13	Cargo Volume Behind Fifth Row (Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.5	-	-	-	-	-	-
V14	Cargo Volume - Max (Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	317.8	405.6	352.3	452.2	511.9	604.4
V15	Cargo Volume - Front Seat (Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42.8	54.2	42.8	54.2	61.2	61.2

NOTE- [ ] DIMENSION ARE INCHES

Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: VAN DIMENSONAL CHART (METRIC)

	Wheelbase (Medium, Long, Ext. Length)	Medium	Medium	Medium	Medium	Medium	Medium	Long	Long	Long	Long	Long	Long	Long	Long	Long	Ext. Length	Ext. Length	Medium	Medium	Long	Long	Long	Ext. Length
	Passenger (Pass.) / Cargo Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van
	Roof (Low , Medium, High)	Low	Medium	Low	Low	Medium	Medium	Low	Medium	High	Low	Low	Medium	Medium	High	High	High	High	Low	Medium	Low	Medium	High	High
	Passenger Capacity (2, 5, 8, 10, 12, 15)	2	2	8	10	8	10	2	2	2	12	15	12	15	12	15	2	15	2	2	2	2	2	2
	Rows of Seating	1	1	3 (2-3-3)	4 (2-2-3-3)	3 (2-3-3)	4 (2-2-3-3)	1	1	1	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	1	5 (2-3-3-3-4)	1	1	1	1	1	1
Dim Code	**EXTERIOR**																							
L101	Wheelbase [mm]	3300	3300	3300	3300	3300	3300	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3300	3300	3750	3750	3750	3750
L103	Length [mm]	5585	5531	5585	5585	5531	5531	6035	5981	5981	6035	6035	5981	5981	5981	5981	6704	6704	5585	5531	6035	5981	5981	6704
L103	Length width optional extended bumper [mm]	-	5585	-	-	5585	5585	-	6035	6035	-	-	6035	6035	6035	6035	6758	6758	-	5585	-	6035	6035	6758
H101C	Height [mm]	2090.5	2510.5	2089	2089	2506	2506	2105	2534.9	2784.5	2092	2092	2520	2520	2759	2759	2778	2736	2088	2518	2105	2574	2785	2803
W103	Width - Excluding Mirrors [mm]	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066 / 2126
W410	Width - Including Mirrors [mm]	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474
W411	Width - Mirrors Folded [mm]	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114
W101C	Front Track [mm]	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732 / 1740
W102C	Rear Track [mm]	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743 / 1670
L104	Front Overhang [mm]	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023
L105	Rear Overhang [mm]	1262	1208	1262	1262	1208	1208	1262	1208	1208	1262	1262	1208	1208	1208	1208	1931	1931	1262	1208	1262	1208	1208	1931
L105	Rr Overhang with optional ext'd bumper [mm]	-	1262	-	-	1262	1262	-	1262	1262	-	-	1262	1262	1262	1262	1985	1985	-	1262	-	1262	1262	1985
H196	Load Height (Curb) [mm]	717	717	717	717	717	717	731	731	731	731	731	731	731	731	731	707	707	733	733	730	730	730	712
H508	Side Cargo Door Opening Height [mm]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1260	1601	1260	1601	1601	1601
L508	Side Cargo Door Opening Width - Hinged [mm]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1300	1300	1300	1300	1300	1300
L508	Side Cargo Door Opening Width - Sliding [mm]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1300	1300	1300	1300	1300	1300
H202	Rear Cargo Door Opening Height [mm]	1192	1595	1192	1192	1595	1595	1192	1595	1834	1192	1192	1595	1595	1834	1834	1834	1834	1258	1648	1258	1648	1887	1887
W203	Rear Cargo Door Opening Width [mm]	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1568	1568	1568	1568	1568	1568
Dim Code	**INTERIOR**																							
H61	Head Room - First Row [mm]	1037	1320	1037	1037	1320	1320	1037	1320	1437	1037	1037	1320	1320	1437	1437	1437	1437	1037	1320	1037	1320	1437	1437
H63	Head Room - Second Row [mm]	-	-	1045	1045	1417	1417	-	-	-	1045	1045	1417	1417	1656	1656	-	1656	-	-	-	-	-	-
H86	Head Room - Third Row [mm]	-	-	1032	1032	1417	1417	-	-	-	1032	1032	1417	1417	1657	1657	-	1657	-	-	-	-	-	-
H86-4th	Head Room - Fourth Row [mm]	-	-	-	983	-	1417	-	-	-	983	983	1417	1417	1657	1657	-	1657	-	-	-	-	-	-
H86-5th	Head Room - Fifth Row [mm]	-	-	-	-	-	-	-	-	-	-	969	-	1336	-	1557	-	1557	-	-	-	-	-	-
L33	Maximum Leg Room - First Row [mm]	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
L34	Leg Room - First Row [mm]	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009
L51	Leg Room - Second Row [mm]	-	-	855	855	855	855	-	-	-	855	855	855	855	855	855	-	855	-	-	-	-	-	-
L86	Leg Room - Third Row [mm]	-	-	903	903	903	903	-	-	-	903	903	903	903	903	903	-	903	-	-	-	-	-	-
L86-4th	Leg Room - Fourth Row [mm]	-	-	-	903	-	903	-	-	-	903	903	903	903	903	903	-	903	-	-	-	-	-	-
L86-5th	Leg Room - Fifth Row [mm]	-	-	-	-	-	-	-	-	-	-	903	-	903	-	903	-	903	-	-	-	-	-	-
W5	Hip Room - First Row [mm]	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543
W6	Hip Room - Second Row [mm]	-	-	1767	1767	1767	1767	-	-	-	1767	1767	1767	1767	1767	1767	-	1767	-	-	-	-	-	-
W86	Hip Room - Third Row [mm]	-	-	1709	1709	1709	1709	-	-	-	1709	1709	1709	1709	1709	1709	-	1709	-	-	-	-	-	-
W86-4th	Hip Room - Fourth Row [mm]	-	-	-	1728	-	1728	-	-	-	1728	1728	1728	1728	1728	1728	-	1728	-	-	-	-	-	-
W86-5th	Hip Room - Fifth Row [mm]	-	-	-	-	-	-	-	-	-	-	1728	-	1728	-	1728	-	1728	-	-	-	-	-	-
W3	Shoulder Room - First Row [mm]	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724
W4	Shoulder Room - Second Row [mm]	-	-	1813	1813	1813	1813	-	-	-	1813	1813	1813	1813	1813	1813	-	1813	-	-	-	-	-	-
W85	Shoulder Room - Third Row [mm]	-	-	1703	1703	1703	1703	-	-	-	1703	1703	1703	1703	1703	1703	-	1703	-	-	-	-	-	-
W85-4th	Shoulder Room - Fourth Row [mm]	-	-	-	1722	-	1722	-	-	-	1722	1722	1722	1722	1722	1722	-	1722	-	-	-	-	-	-
W85-5th	Shoulder Room - Fifth Row [mm]	-	-	-	-	-	-	-	-	-	-	1722	-	1722	-	1722	-	1722	-	-	-	-	-	-
L202	Cargo Length Front (at Floor) [mm]	3150	3150	3150	3150	3150	3150	3600	3600	3600	3600	3600	3600	3600	3600	3600	4323	4323	3200	3200	3650	3650	3650	4373
L204	Cargo Length Front (at Belt) [mm]	2924	2924	2924	2924	2924	2924	3374	3374	3374	3374	3374	3374	3374	3374	3374	4097	4097	2943	2943	3393	3393	3393	4116
W201	Cargo Width Between Wheelhouse [mm]	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1392	1392	1392	1392	1392	1392 / 1154
H505	Cargo Height Maximum [mm]	1340	1718	1340	1340	1718	1718	1340	1718	1956	1340	1340	1718	1718	1956	1956	1956	1956	1446	1830	1446	1830	2069	2069
Dim Code	**CARGO CAPACITY**																							
V6	Cargo Volume Behind First Row (Van)	6357.1	8288.3	6356	6357.1	8288.1	8288.3	7260.4	9517.3	10834	7260.4	6328.8	9517.3	8582.8	10834	9899.6	13079.6	12046	6984.6	8925.9	7862.6	10110.6	11447.1	13797.3
V7	Cargo Volume Behind Second Row (Van)	-	-	4298.4	4298.5	5605	5603.9	-	-	-	5182	4247.5	6790.4	5855.9	7730.5	6798.9	-	8866	-	-	-	-	-	-
V9	Cargo Volume Behind Third Row (Van)	-	-	2668	2667.4	3539.5	3539.6	-	-	-	3525.4	2591	4726.1	3791.6	5380.2	4445.7	-	6512.9	-	-	-	-	-	-
V12	Cargo Volume Behind Fourth Row (Van)	-	-	-	-	-	-	-	-	-	1985	1384.7	2658.9	2061.5	3029.9	2429.6	-	5210.3	-	-	-	-	-	-
V13	Cargo Volume Behind Fifth Row (Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2845.8	-	-	-	-	-	-
V14	Cargo Volume - Max (Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8071.5	10301.4	8949.5	11486.1	13002.3	15352.5
V15	Cargo Volume - Front Seat (Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1086.9	1375.5	1086.9	1375.5	1555.2	1555.2

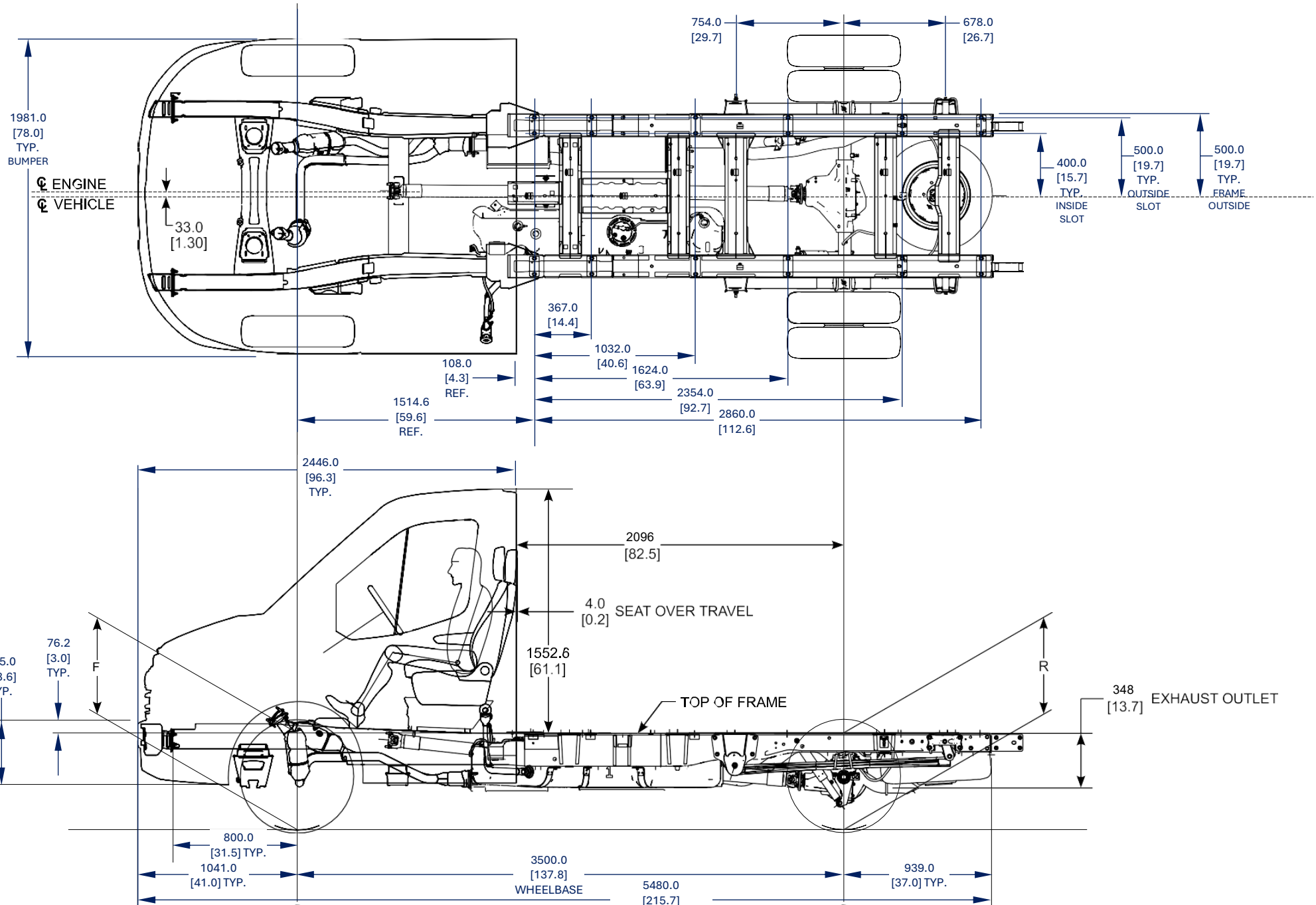
NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: CHASSIS CAB/CUTAWAY (138” WB)



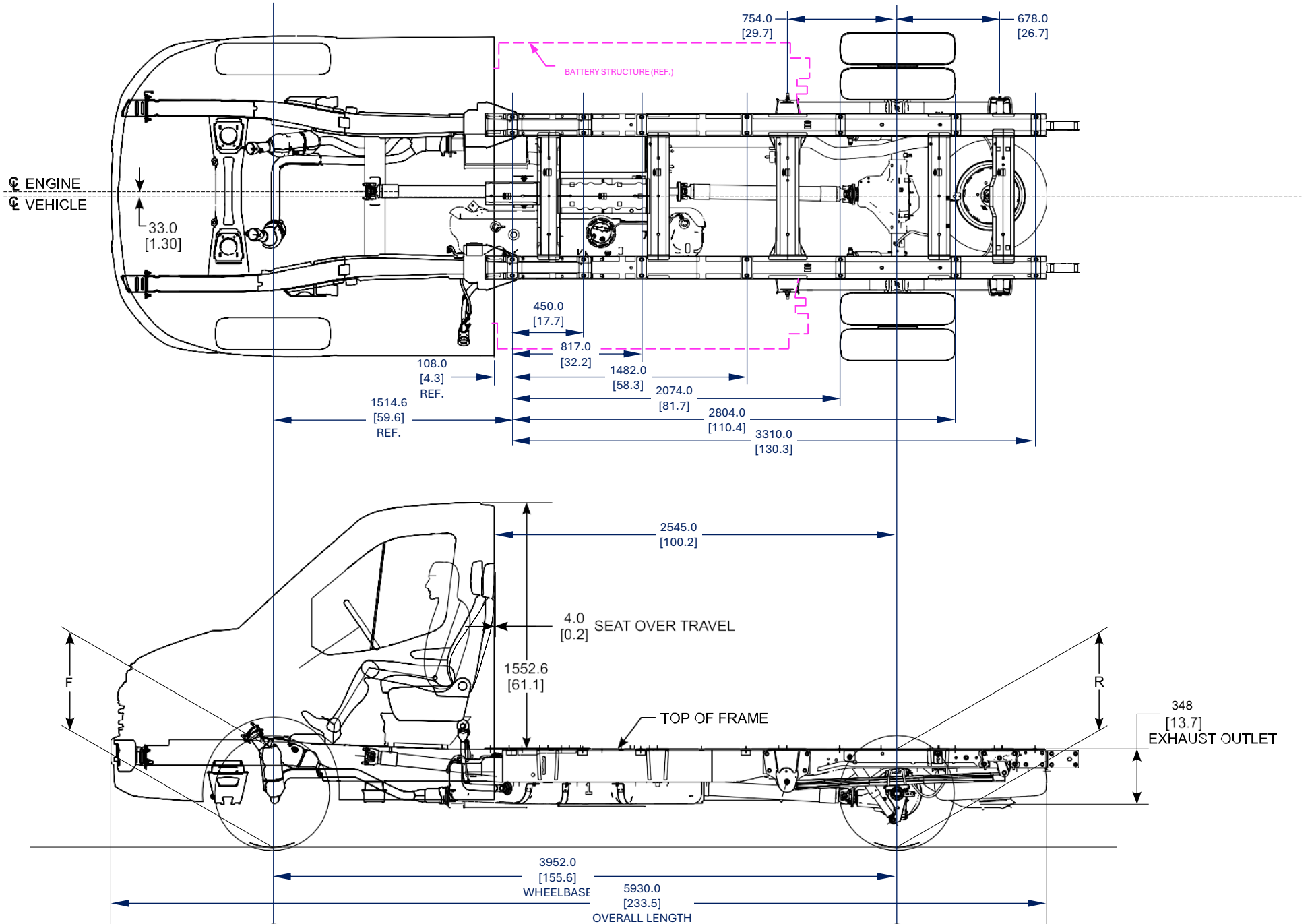
NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: CHASSIS CAB/CUTAWAY (156” WB)



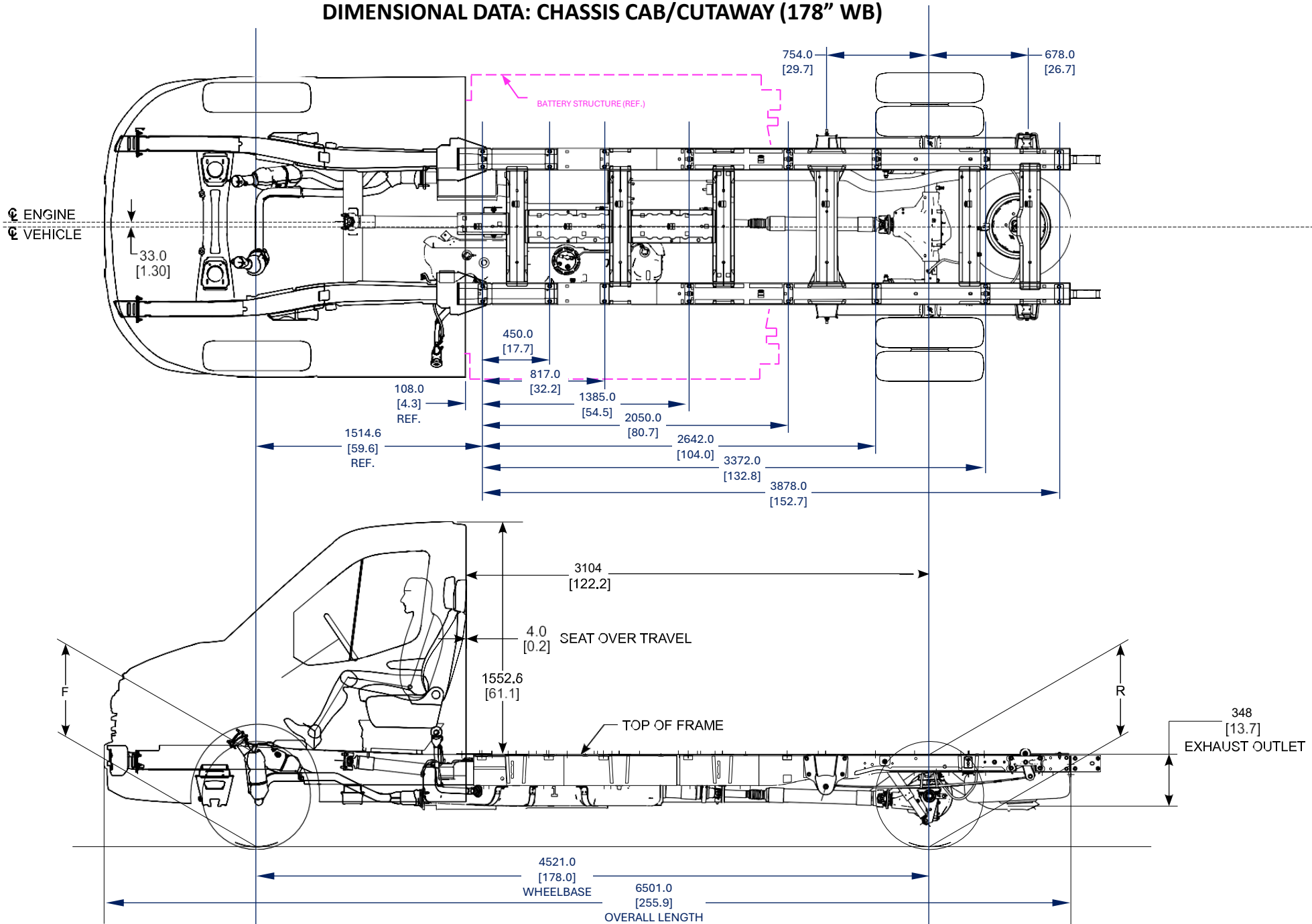
NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: CHASSIS CAB/CUTAWAY (178” WB)



NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: CHASSIS CAB/CUTAWAY DIMENSONAL CHART

		REGULAR			LONG				JUMBO	
		T250	T350 HD	T350HD	T250	T350	T350HD	T350HD	T350HD	T350HD
CHASSIS CAB/CUTAWAY	**CODE**	SRW	DRW	DRW	SRW	SRW	DRW	DRW	DRW	DRW
WHEELBASE	**L101**	3504 [138]	3504 [138]	3504 [138]	3954 [155.7]	3954 [155.7]	3954 [155.7]	3954 [155.7]	4522 [178]	4522 [178]
OVERALL LENGTH	**L103**	5673 [223.3]	5673 [223.3]	5673 [223.3]	6123 [241.1]	6123 [241.1]	6123 [241.1]	6123 [241.1]	6691 [263.4]	6691 [263.4]
FRONT TRACK	**W101C**	1732 [68.2]	1740 [68.5]	1740 [68.5]	1732 [68.2]	1732 [68.2]	1740 [68.5]	1740 [68.5]	1740 [68.5]	1740 [68.5]
REAR TRACK	**W102C**	1743 [68.6]	1670 [65.7]	1670 [65.7]	1743 [68.6]	1743 [68.6]	1670 [65.7]	1670 [65.7]	1670 [65.7]	1670 [65.7]
REAR AXLE TO END OF FRAME (REAR OVERHANG)	**N/A**	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]
LOAD HEIGHT (LOADED)	**R**	634 [25]	627 [24.7]	616 [24.3]	656 [25.8]	645 [25.4]	649 [25.6]	643 [25.3]	633 [24.9]	624 [24.6]
HEIGHT AT TOP OF STEERING WHEEL (LOADED)	**N/A**	1537 [60.5]	1513 [59.6]	139 [5.5]	1529 [60.2]	1526 [60.1]	1503 [59.2]	1500 [59.1]	1523 [60]	1521 [59.9]
REAR AXLE CLEARANCE (LOADED)	**N/A**	141 [5.6]	140 [5.5]	139 [5.5]	155 [6.1]	151 [5.9]	1545 [60.8]	153 [6]	150 [5.9]	153 [6]

NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DIMENSIONAL DATA: CENTER OF GRAVITY REFERENCE DATA

PASSENGER LOAD [1]	
GVWR	P (kg [lb])
10,000 LB AND BELOW	181 [400]
OVER 10,000 LB	227 [500]

PASSENGER LOAD CGLOCATION		
CONFIGURATION	CG_{vp} [2] (mm [in])	CG_{hp} [3] (mm [in])
ALL TRANSIT	1059 [41.7]	1031 [40.6]

CHASSIS VERTICAL CG LOCATION [4] VAN			
ROOF HEIGHT	AXLE	ENGINE	CG_{vc} [5] (mm [in])
LOW	SRW	3.5L PFDI	785 [30.9]
		3.5L ECOBOOST	792 [31.2]
		BEV	701 [27.6]
	DRW	3.5L PFDI	787 [31.0]
		3.5L ECOBOOST	795 [31.3]
MED	SRW	3.5L PFDI	836 [32.9]
		3.5L ECOBOOST	843 [33.2]
		BEV	752 [29.6]
	DRW	3.5L PFDI	838 [33.0]
		3.5L ECOBOOST	846 [33.3]
HIGH	SRW	3.5L	876 [34.5]
		3.5L ECOBOOST	884 [34.8]
		BEV	792 [31.2]
	DRW	3.5L PFDI	879 [34.6]
		3.5L ECOBOOST	886 [34.9]

CHASSIS VERTICAL CG LOCATION [4] CUTAWAY / CHASSIS CAB			
WB (IN)	AXLE	ENGINE	CG_{vc} [5] (mm [in])
138	SRW	3.5L PFDI	706 [27.8]
		3.5L ECOBOOST	714 [28.1]
	DRW	3.5L PFDI	716 [28.2]
		3.5L ECOBOOST	724 [28.5]
156	SRW	3.5L PFDI	673 [26.5]
		3.5L ECOBOOST	681 [26.8]
	DRW	3.5L PFDI	683 [26.9]
		3.5L ECOBOOST	691 [27.2]
178	SRW	3.5L PFDI	663 [26.1]
		3.5L ECOBOOST	671 [26.4]
		BEV	579 [22.8]
	DRW	3.5L PFDI	673 [26.5]
		3.5L ECOBOOST	681 [26.8]

NOTES:

1. P – Passenger Load as defined in FMVSS 105
2. CG_{vp} – Vertical CG location of Passenger Load as measured from the Ground
3. CG_{hp} – Horizontal CG location of Passenger Load as measured from the Center of the Front Wheel
4. Values are calculated based on physical measurements from a sample of chassis. All values should be considered estimates, if the calculated CG values for the completed vehicle are close to limits stated in the applicable IVM, Ford recommends verification of CG by physical measurement of a completed vehicle.
5. CG_{vc} – Vertical CG location of Chassis as measured from the Ground
6. Where not provided, CG_t values can be assumed at the centerline of vehicle (Y = 0)

TRANSIT

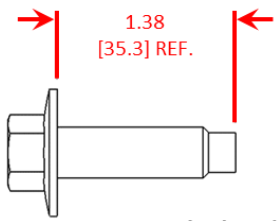
DESIGN / RECOMMENDATION: SECOND UNIT MOUNTING (GAS & BEV)

TRANSIT SECOND UNIT BODY (SUB)

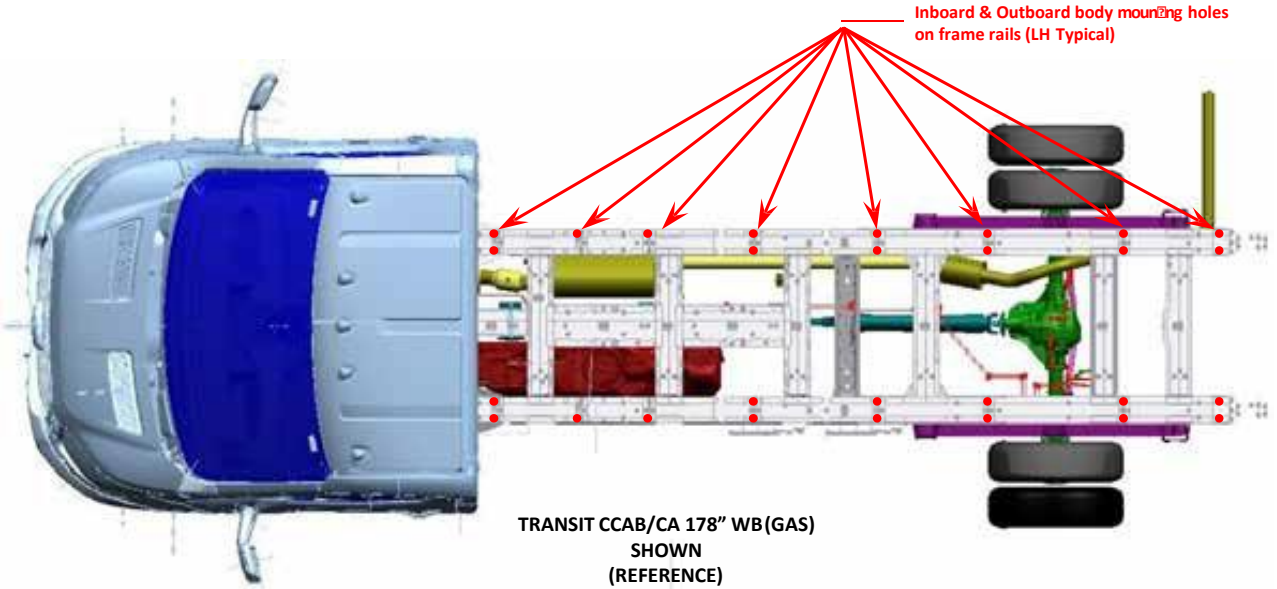
Refer to the Transit Incomplete Vehicle Manual (IVM) and the Transit Body and Equipment Mounting Manual (BEMM), Body Section, 5.1.6 Chassis Cab / Cutaway at https://www.fordpro.com/en-us/upfit/publications/ for additional SUB mounting information for both GAS and BEV Model variants.

- A full-length structural body should be hard-mounted to all available inboard and outboard frame hole locations; however, fasteners are not required in 2nd and 3rd rows of LH and RH frame rail inboard holes alongside the battery, fuel tank and exhaust muffler. Ford Motor Company recommends 25 mm head-size flange M10 Grade 10.9 W520113-S442 nuts & W703776-S442 bolts, or equivalent. Reference BEMM Body Section, 5.1.6 Chassis Cab / Cutaway.

W520113-S442 Nut (REF.)

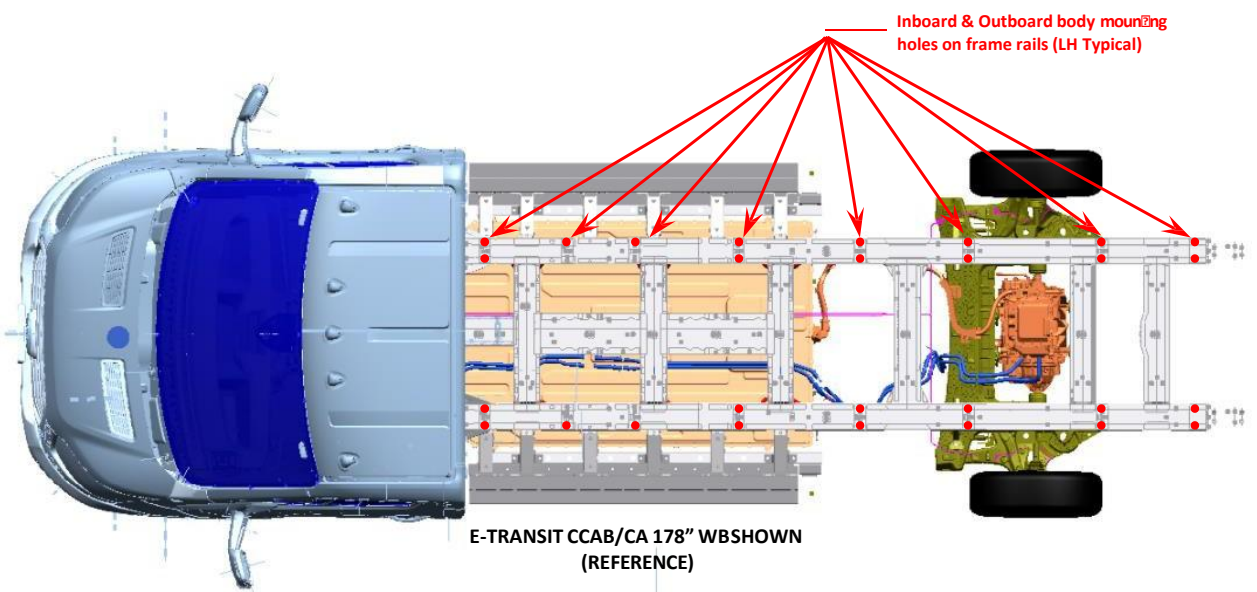


W703776-S442 Bolts (REF.)



TRANSIT CCAB/CA 178" WB (GAS)
SHOWN
(REFERENCE)

- **DO NOT WELD** to the flanges of the side rails.
- The recommended attachment fastener for the Cutaway Back-of-Cab non-threaded nutplates is a MR8 Taptite 2000® bolt or equivalent. Reference Transit BEMM Body Section, 5.1.7 Cutaways.
- NOTE: The requirement for a Cutaway floor spacer between the cab and an attached body. Reference: BEMM Body Section, 5.1.7 Cutaway – Floor Spacer.
- **NOTE: BEV Chassis Cab vehicles with a Platform or Stake style Second Unit Body may exhibit a Low Frequency Ride Comfort Characteristics that does not meet customer expectations. When upfitting a vehicle with either of these Second Unit Bodies, Ford Motor Company recommends installation of a Tuned Mass Damper Part: NK31-110867-AA* be ordered and installed prior to delivery to end/final customer. Reference the following page for image and location.**

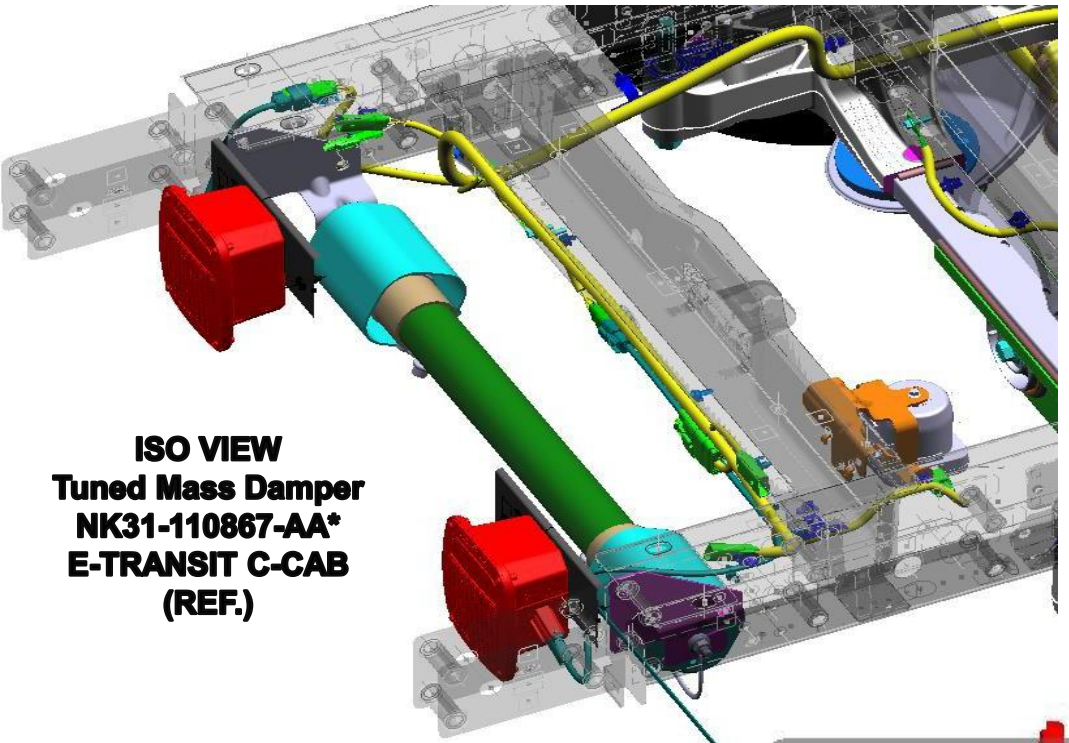


E-TRANSIT CCAB/CA 178" WBSHOWN
(REFERENCE)

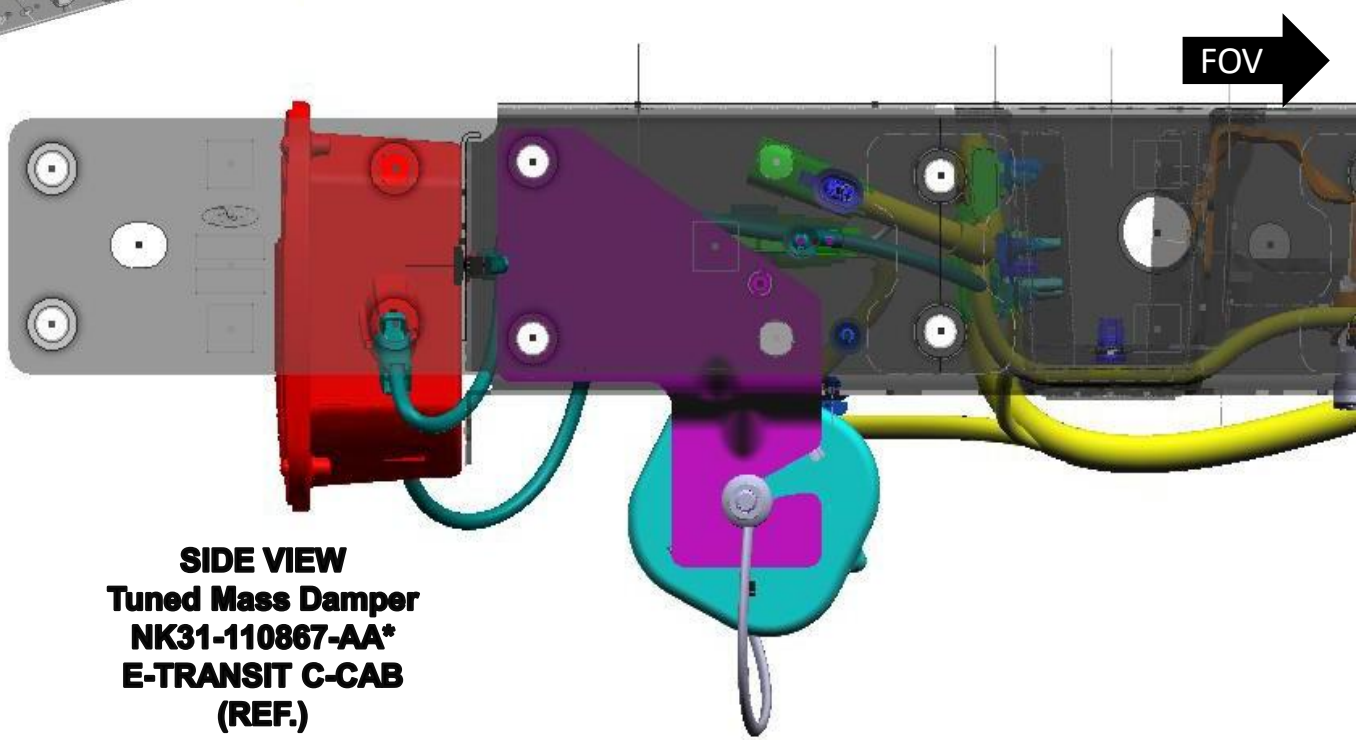
NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DESIGN / RECOMMENDATION: SECOND UNIT MOUNTING (BEV)



ISO VIEW
Tuned Mass Damper
NK31-110867-AA*
E-TRANSIT C-CAB
(REF.)



SIDE VIEW
Tuned Mass Damper
NK31-110867-AA*
E-TRANSIT C-CAB
(REF.)

TRANSIT

DESIGN / RECOMMENDATION: PRECAUTIONARY DRILL ZONES GUIDANCE (E-TRANSIT)

E-TRANSIT VAN PRECAUTIONARY DRILL ZONES

Refer to the Transit Incomplete Vehicle Manual (IVM) and the Transit Body and Equipment Mounting Manual (BEMM), Powertrain Section, for further precautionary details. https://www.fordpro.com/en-us/upfit/publications/ for GAS and Battery Electric Vehicle (BEV) Model variants.

THIS GUIDANCE ONLY APPLIES TO THE E-TRANSIT BEV.

It is **STRONGLY** recommended that E-Transit VAN CAD is obtained for upfitter use to understand vehicle component placement/location of Hi/Low-Voltage Wire harness routing, coolant line wiring, hydraulic brake line routing, rear drive unit placement, etc. CAD can be obtained from Ford Body Builder Advisory Service by submitting a helpdesk ticket, https://www.fordpro.com/en-us/upfit/cad/

Take precautions when undertaking drilling, or any other operation, aft of B-Pillar in order to prevent damage to any components under the Van floor.

HV grounding points in the vehicle are not to be touched.

When adding holes/fasteners to the floor of the vehicle to secure upfits, consideration must be given to all components below the floor.

- It is strongly recommended that drill-depth stop be used.
- Drill stop depth shall not exceed 1.0 [25.4] MAXIMUM DEPTH
- Fasteners (including PlusNut® or equivalent) extending below the floor of the vehicle shall not exceed 1.0 [25.4] MAXIMUM DEPTH (Figure A)
- Fasteners (and/or alternative fastening method) extending below the floor of the vehicle shall have 2.0 [50.8] MINIMUM CLEARANCE to any surrounding Hi/Low-Voltage wiring and/or coolant line routing and/or hydraulic brake line routing to prevent any damage/chaffing. (Figure B)

NOTE:

- Re-paint metal edges after cutting or drilling. All metal edges must comply with exterior and interior protection legislation.
- All fixings through the floor, sides or roof must be sealed. (Refer BEMM sections 5.1.1 Body Structures and 5.1.3 Corrosion Prevention)

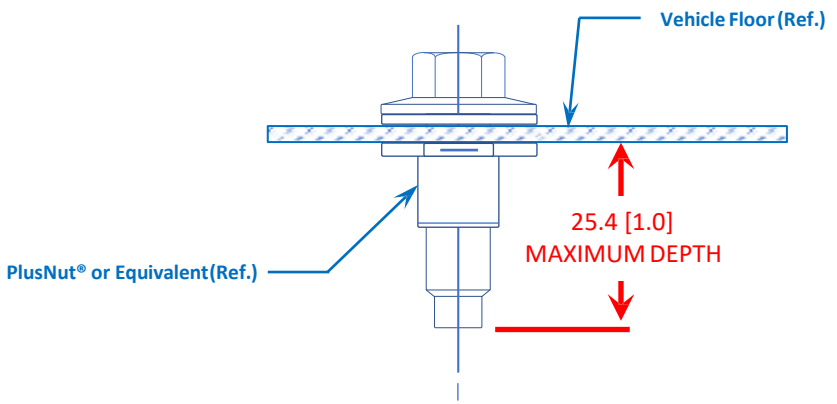


Figure A

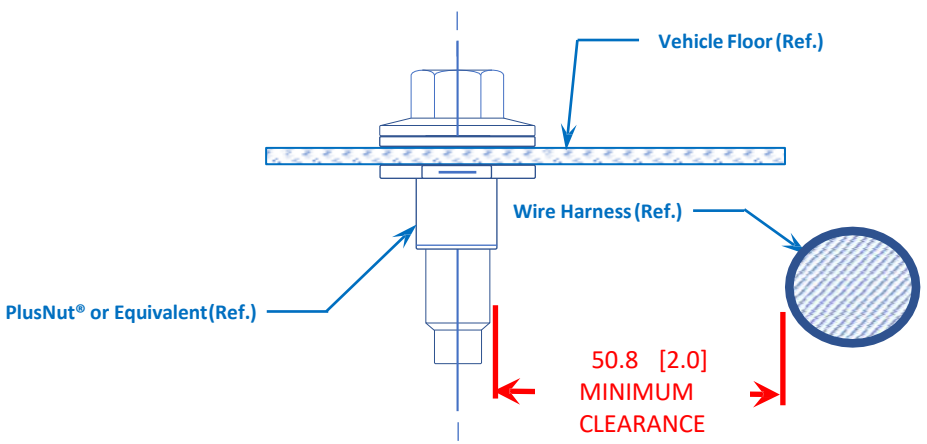


Figure B

TRANSIT

DESIGN / RECOMMENDATION: HIGH VOLTAGE BATTERY VEHICLE VENTING (E-TRANSIT)

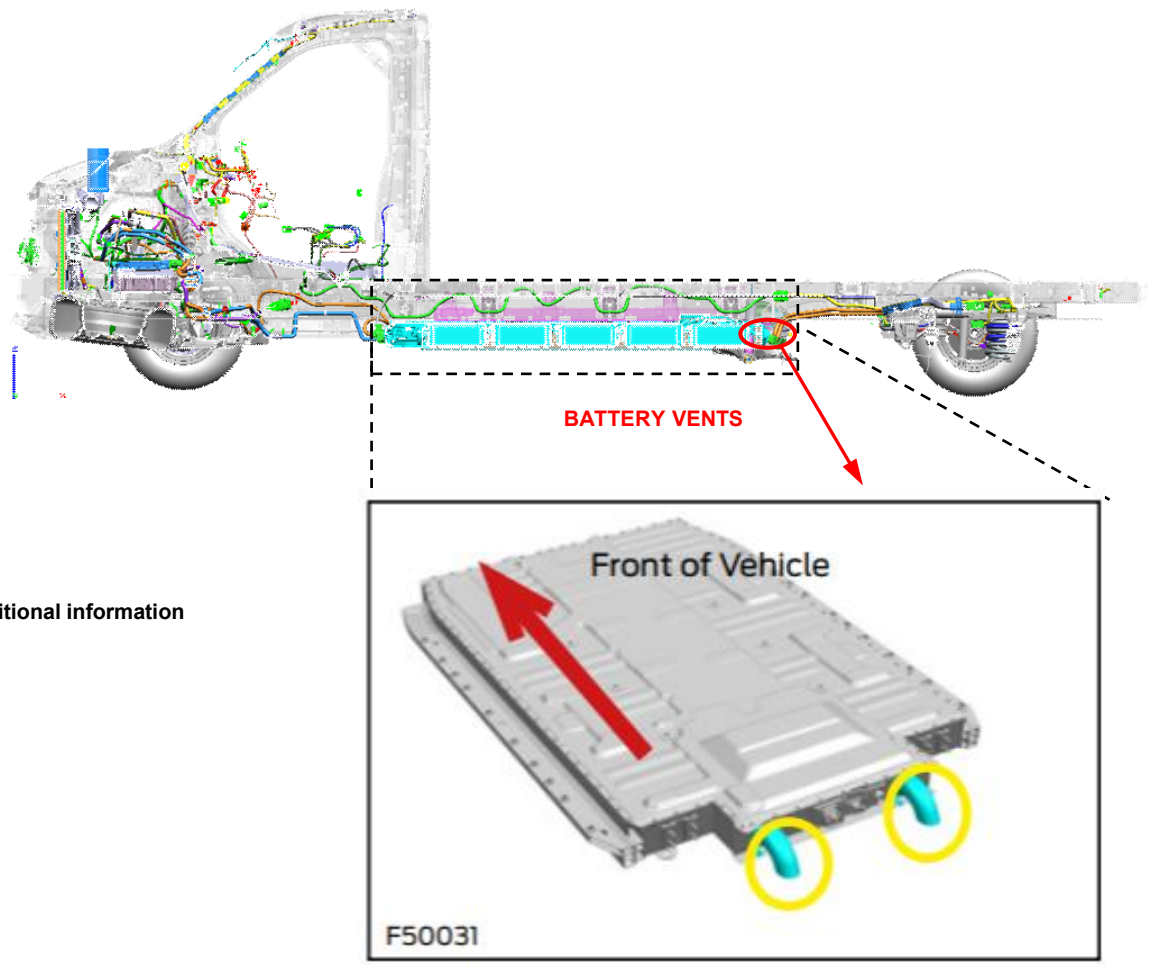
HIGH VOLTAGE BATTERY VEHICLE VENTING

If the HV Battery is equipped with pressure equalization patches, pressure relief ports, and/or exhaust vent ducts, no additional components nor obstructions (beyond any installed by Ford) shall be located in the same environment as the battery (e.g., underbody), and within 150 mm of these features. Additionally, no components which may contain combustible liquids or gasses at any time shall be added by the upfitter within 300 mm of these features.

There shall be no modifications or installed components which confine the air space near the outside of the HV Battery or obstruct the free flow of air about the battery (beyond any installed by Ford).

Any cut outs or openings created between the occupant space and the vehicle underbody shall be sealed such that air is not free to pass from under the vehicle into the occupant space.

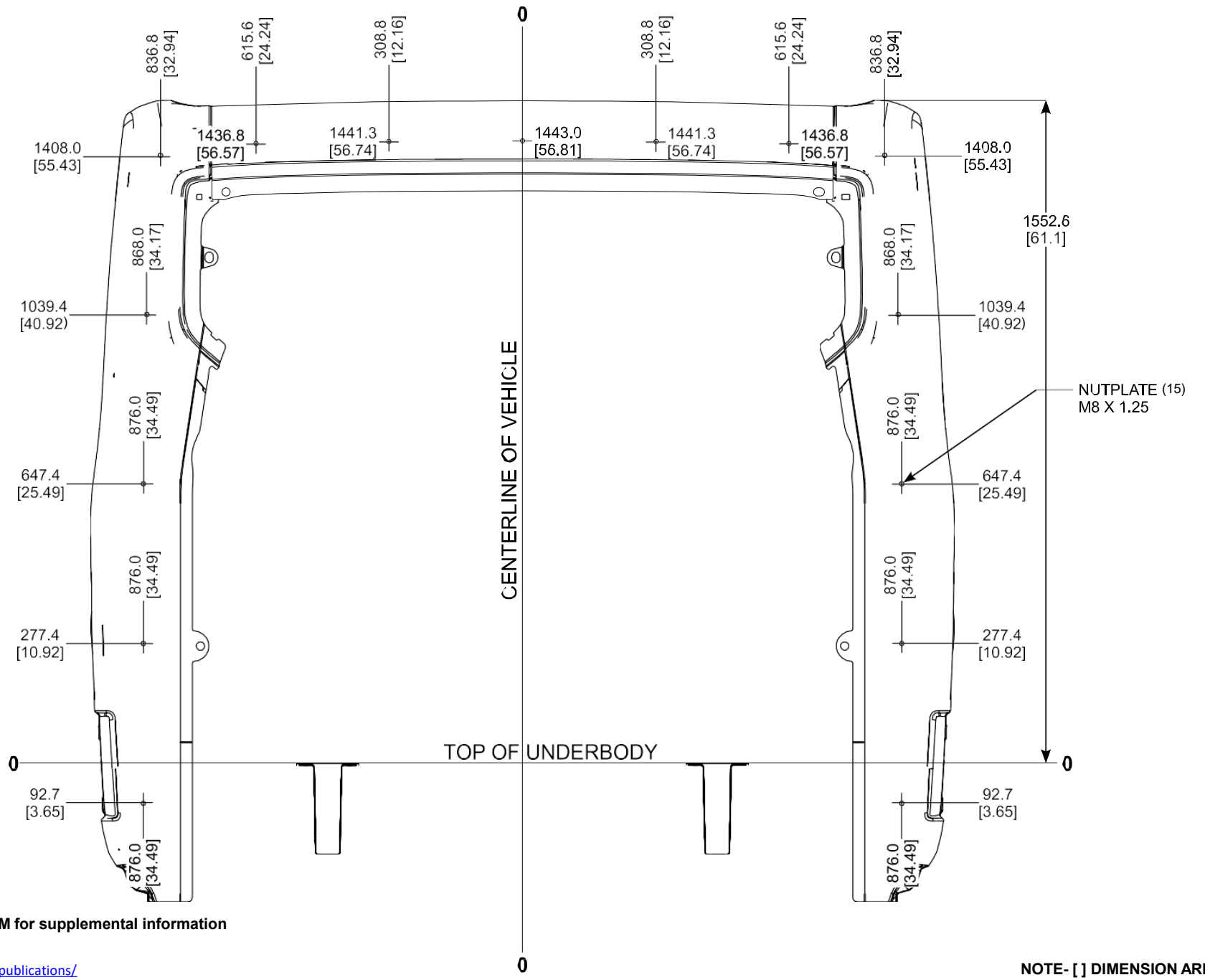
If any primary ingress/egress paths for occupant spaces are located above or rearward of the rear axle(s), a metallic shielding shall be added to obstruct any air flow from the battery towards those ingress/egress paths and redirect that air flow towards a side/rear area that is not a primary ingress/egress path.



*** Reference the Transit BEMM for additional information**

TRANSIT

DESIGN / RECOMMENDATIONS: BACK OF CAB MOUNTING HOLES (CUTAWAY)

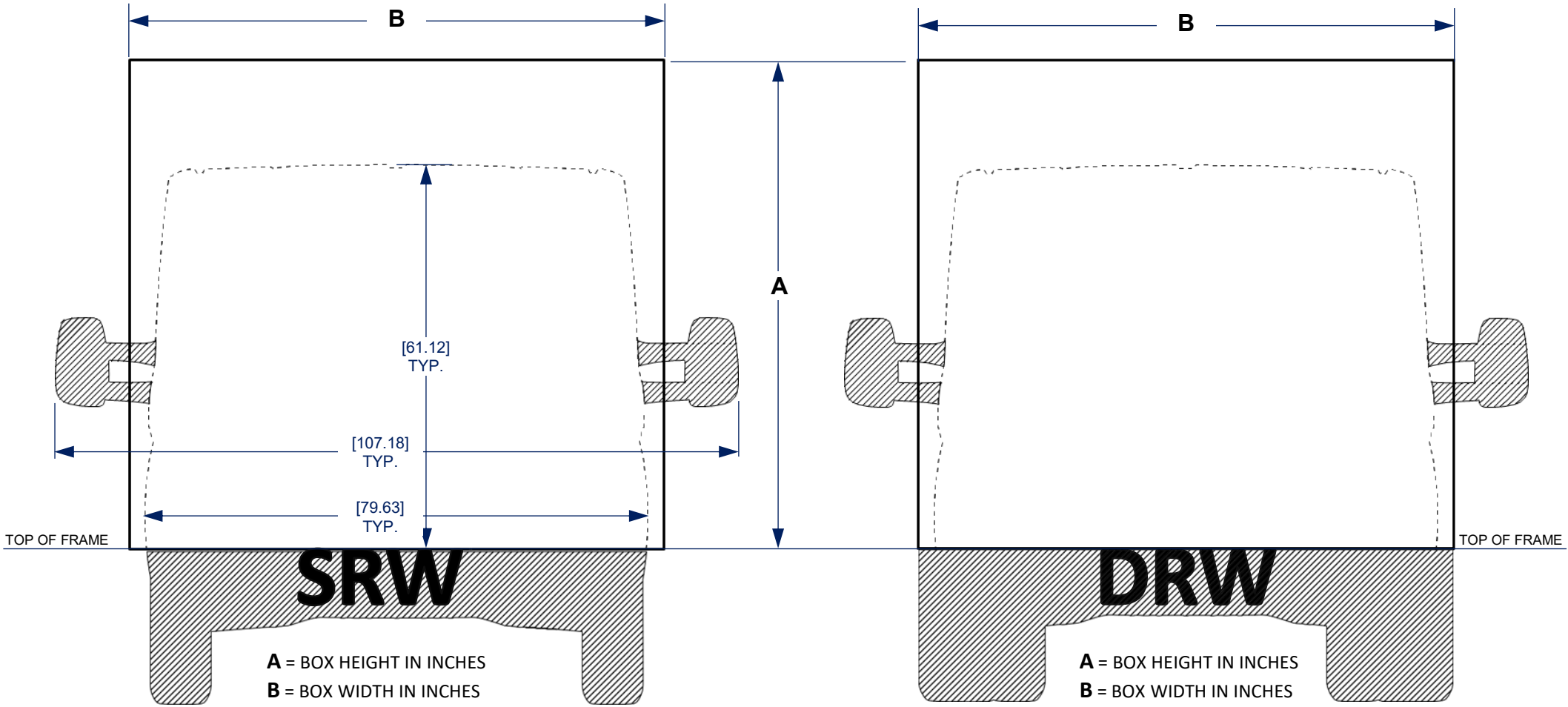


*** Reference the Transit BEMM for supplemental information**

NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DESIGN INFO / RECOMMENDATION: FRONTAL AREA RESTRICTIONS (CHASSIS CAB & CUTAWAY)



TO FIND FRONT SURFACE AREA IN SQ. INCHES: (A X B) + 1429.7 =

TO FIND FRONT SURFACE AREA IN SQ. FEET : ((A X B)) / 144) + 9.93 =

Note: These equations are accurate for SUBs where dimensions A and B exceed the cab height and width respectively. If that is not the case, a more detailed analysis is required to accurately determine the frontal area of the completed vehicle.

BELOW FRAME SHADED AREA = 728601 mm^2, 1129.3 SQ. IN. or 7.84 SQ. FT

MIRROR SHADED AREA = 193765 mm^2, 300.3 SQ. IN. or 2.09 SQ. FT.

TOTAL SHADED AREA = 922366 mm^2, 1429.7 SQ. IN. or 9.93 SQ. FT.

TO FIND FRONT SURFACE AREA IN SQ. INCHES: (A X B) + 1715.6 =

TO FIND FRONT SURFACE AREA IN SQ. FEET : ((A X B)) / 144) + 11.91 =

Note: These equations are accurate for SUBs where dimensions A and B exceed the cab height and width respectively. If that is not the case, a more detailed analysis is required to accurately determine the frontal area of the completed vehicle.

BELOW FRAME SHADED AREA = 913124 mm^2, 1415.3 SQ. IN. or 9.83 SQ. FT

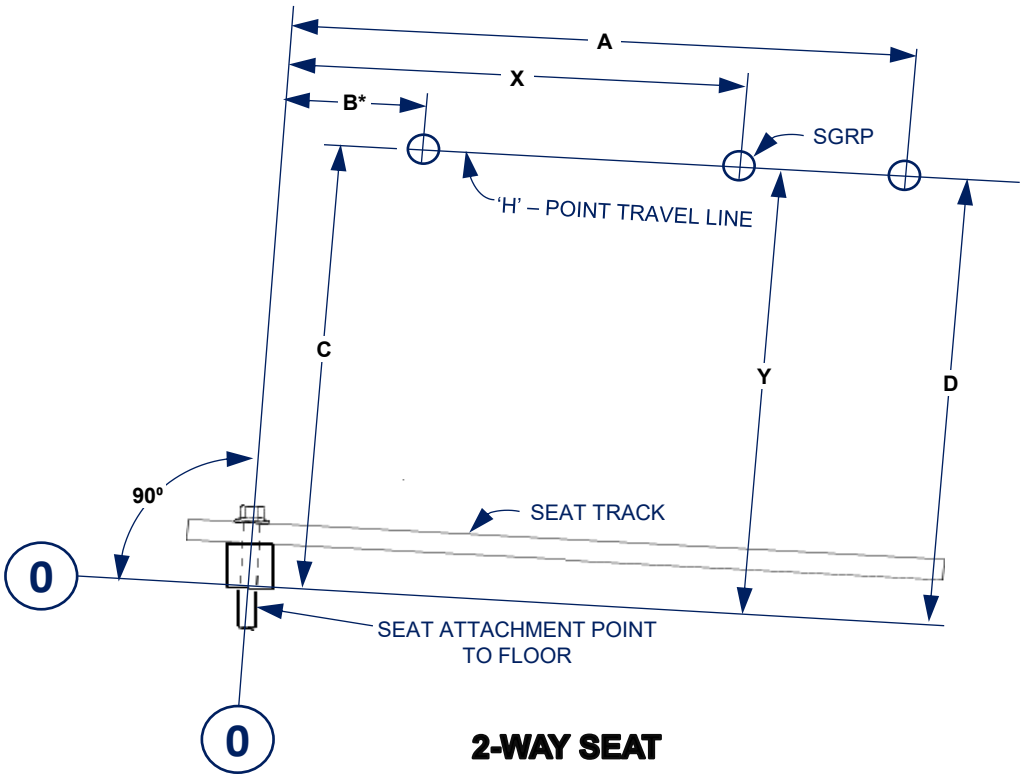
MIRROR SHADED AREA = 193765 mm^2, 300.3 SQ. IN. or 2.09 SQ. FT.

TOTAL SHADED AREA = 1106889 mm^2, 1715.7 SQ. IN. or 11.91 SQ. FT.

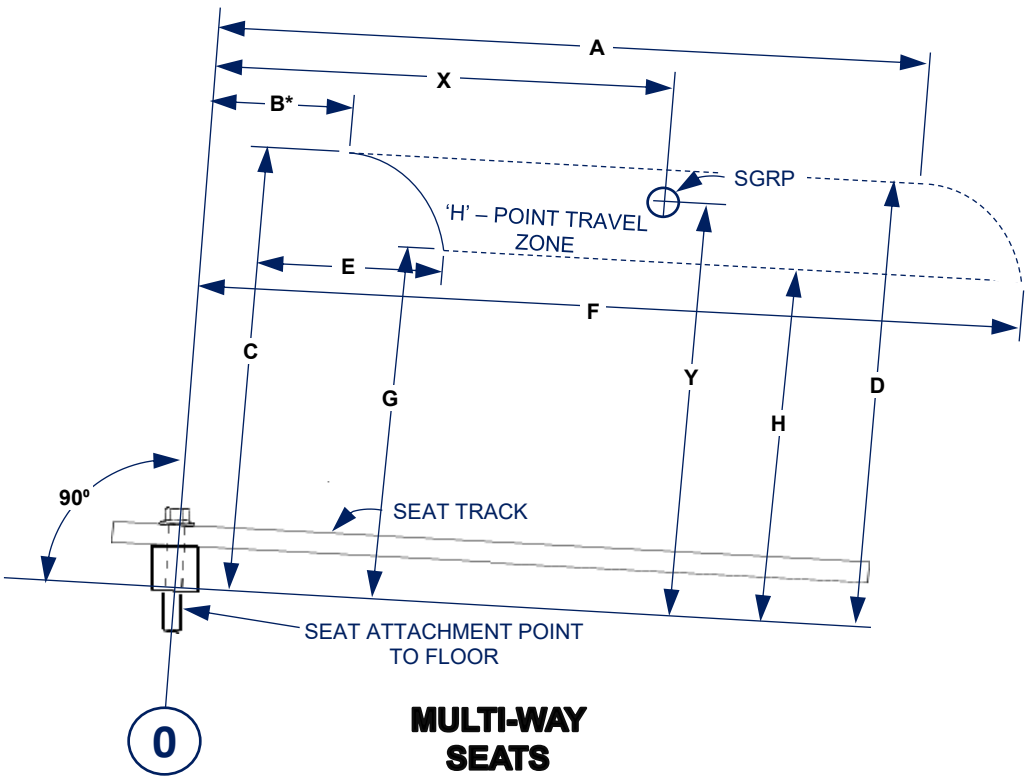
Body Builders Layout Book

TRANSIT

DESIGN/RECOMMENDATION: SEAT H-POINT (ALL MODELS)



2-WAY SEAT



MULTI-WAY SEATS

FOV

SEAT TRAVEL DATA										
	SEAT DIMENSIONS								SgRP Location	
SEAT MODEL	A	B	C	D	E	F	G	H	X	Y
2-WAY SEAT	302 [11.9]	54 [2.1]	449 [17.7]	449 [17.7]	0 [0]	0 [0]	0 [0]	0 [0]	261 [10.3]	449 [17.7]
4-WAY SWIVEL	301 [11.9]	53 [2.1]	476 [18.7]	476 [18.7]	45 [1.8]	294 [11.6]	446 [17.6]	446 [17.6]	261 [10.3]	449 [17.7]
10-WAY SEAT	293 [11.5]	44 [1.7]	479 [18.9]	479 [18.9]	35 [1.4]	284 [11.2]	400 [15.7]	400 [15.7]	261 [10.3]	449 [17.7]
SEAT TRACK ANGLE TO TOP OF FRAME = 2.4										

NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DESIGN / RECOMMENDATION: AFTERMARKET PARTITIONS/BULKHEADS CONSIDERATIONS

AFTERMARKET PARTITIONS/BULKHEADS CONSIDERATIONS

- **Side curtain airbags are standard on Transit cargo vans starting 2016 Model Year. Upfitters installing Aftermarket Partitions / Bulkheads must ensure that installations do not interfere with side curtain airbag deployment.**

- **Medium and High Roof Recommendations:**
  Partitions or Bulkheads installed in Transit Vans must not interfere with airbag deployment zones. CAD Data (Figure 1) of the Medium and High roof Airbag keep-out Zones is available upon request
  Partition / Bulkhead should be positioned rearward of the prescribed keep-out zone. Additionally, The RH / LH foam blocks cannot be removed or modified. To prevent damage to the deploying airbag, panel closeout around foam blocks should be a soft edge and the forward attaching face of the partition / bulkhead should have no exposed protruding fasteners or sharp edges.

- **Low Roof Recommendations:**
  Partitions and Bulkheads need to positioned at or rearward of the front headliner / B-pillar trim surface while maintaining existing headliner and b-pillar surface. Bulkhead cannot attach directly to the headliner to ensure proper airbag deployment. (See Figures 2 and 3) Additionally, The RH / LH foam blocks cannot be removed or modified. To prevent damage to the deploying airbag, panel closeout around foam blocks should be a soft edge and the forward attaching face of the partition/ bulkhead should have no exposed protruding fasteners or sharp edges.

- **Seat Belt Retractor Damage:**
  When fastening any aftermarket equipment to the B-Pillar (such as a bulkhead or partition), the modifier must ensure that drilling operations and/or fasteners do not damage the seatbelt retractor. Damage to the seat belt retractor caused by a vehicle modifier is not a warrantable charge. See Figure 4

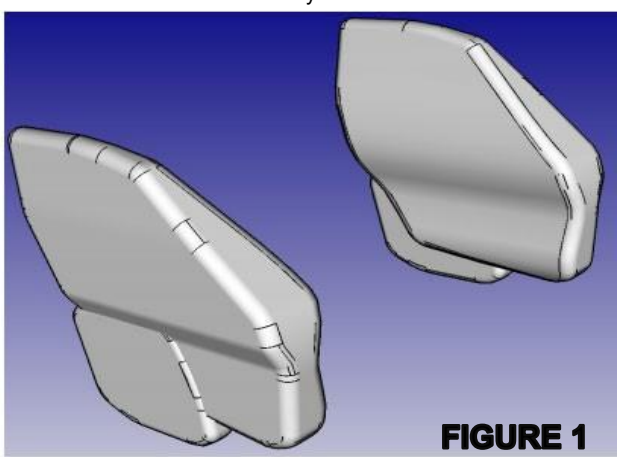


FIGURE 1

AIRBAG KEEP-OUT ZONES (MEDIUM AND HIGH ROOF)

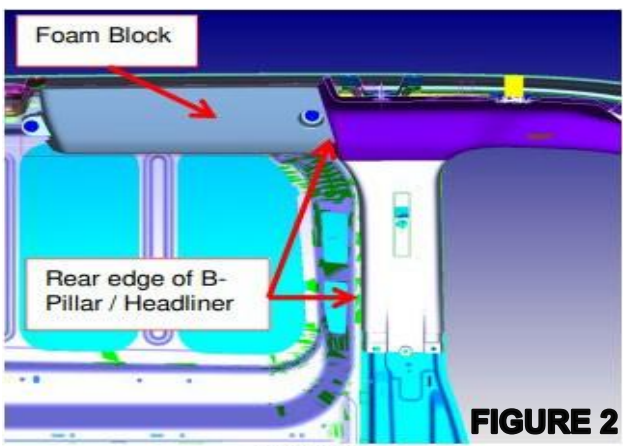


FIGURE 2

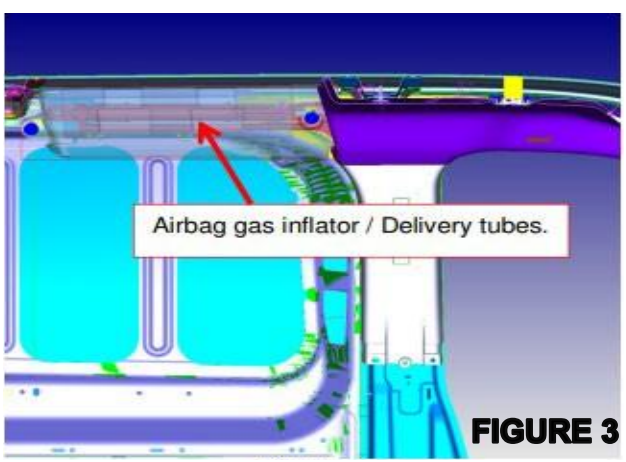


FIGURE 3

*** Reference the Transit BEMM for supplemental information**

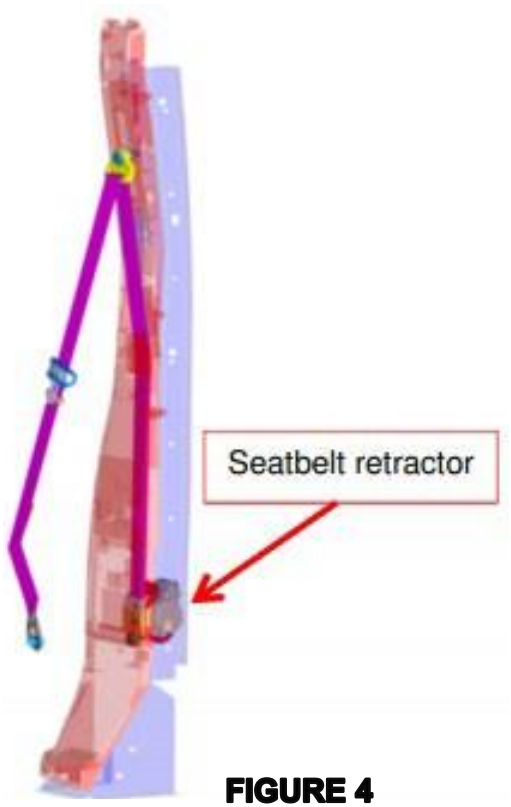


FIGURE 4

SEAT BELT RETRACTOR LOCATION (REF. LH SIDE)

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TRANSIT

CLIMATE CONTROL: GREEN HOUSE GAS EVAPORATIVE EMISSION SPECIFICATIONS

Pursuant to California regulation 17 CCR §95663 , and EPA 40CFR 1037.115(e) the specific leakage for this vehicle (as built by Ford Motor Company) is shown in the table below (see "J2727 Leakage Value" column). If the vehicle air conditioning system is modified in any way, or air conditioning systems are added, the intermediate or final-stage manufacturer must calculate the final system leakage. If desired, the spreadsheet used by Ford to calculate the J2727 Leakage is available and can be edited to reflect the modified system.

Please contact Ford BBAS to request a copy of the vehicle line specific GHG Evaporative Emissions Worksheet: https://www.fordpro.com/en-us/upfit/contact-us/

MY	VEHICLE LINE	FEATURES / MODELS	EVAPORATOR	POWERTRAIN	REFRIGERANT	CHARGE SIZE OF A/C SYSTEM (KG)	J2727 LEAKAGE VALUE (G/YR)	MAX ALLOWED LEAKAGE
2026	TRANSIT	ALL	SINGLE	3.5L PFDi & 3.5l GTDI	R-134a	0.85	6.155	12.75
2026	TRANSIT	REGULAR WB	DUAL	3.5L PFDi V6	R-134a	1.425	6.966	21.375
2026	TRANSIT	LONG WB	DUAL	3.5L PFDi V6	R-134a	1.425	7.057	21.375
2026	TRANSIT	LONG WB EXTENDED LENGTH	DUAL	3.5L PFDi V6	R-134a	1.425	7.101	21.375
2026	TRANSIT	REGULAR WB	DUAL	3.5L GTDI V6	R-134a	1.425	6.966	21.375
2026	TRANSIT	LONG WB	DUAL	3.5L GTDI V6	R-134a	1.425	7.057	21.375
2026	TRANSIT	LONG WB EXTENDED LENGTH	DUAL	3.5L GTDI V6	R-134a	1.425	7.101	21.375
2026	TRANSIT	PREP PACK	SINGLE	3.5L PFDi & 3.5l GTDI	R-134a	0.85	6.281	12.75

TRANSIT

CLIMATE CONTROL: AUXILIARY A/C & HEATER AFTERMARKET ADDITION GUIDANCE

• Ford's E-Transit vans equipped with the Enhanced Range Battery use a Vapor Injection Heat Pump (VIHP) system for climate control.

• Ford advises against modifying the original climate control system because the 4P VIHP is complex. Alterations could negatively affect how well it works and how reliable it is.

Alternative Solution: E-Transit is available with an optional 2.4 kW Pro Power Onboard feature. Final Stage Manufacturers may want to consider usage of an aftermarket system for supplemental heater and cooling purposes.

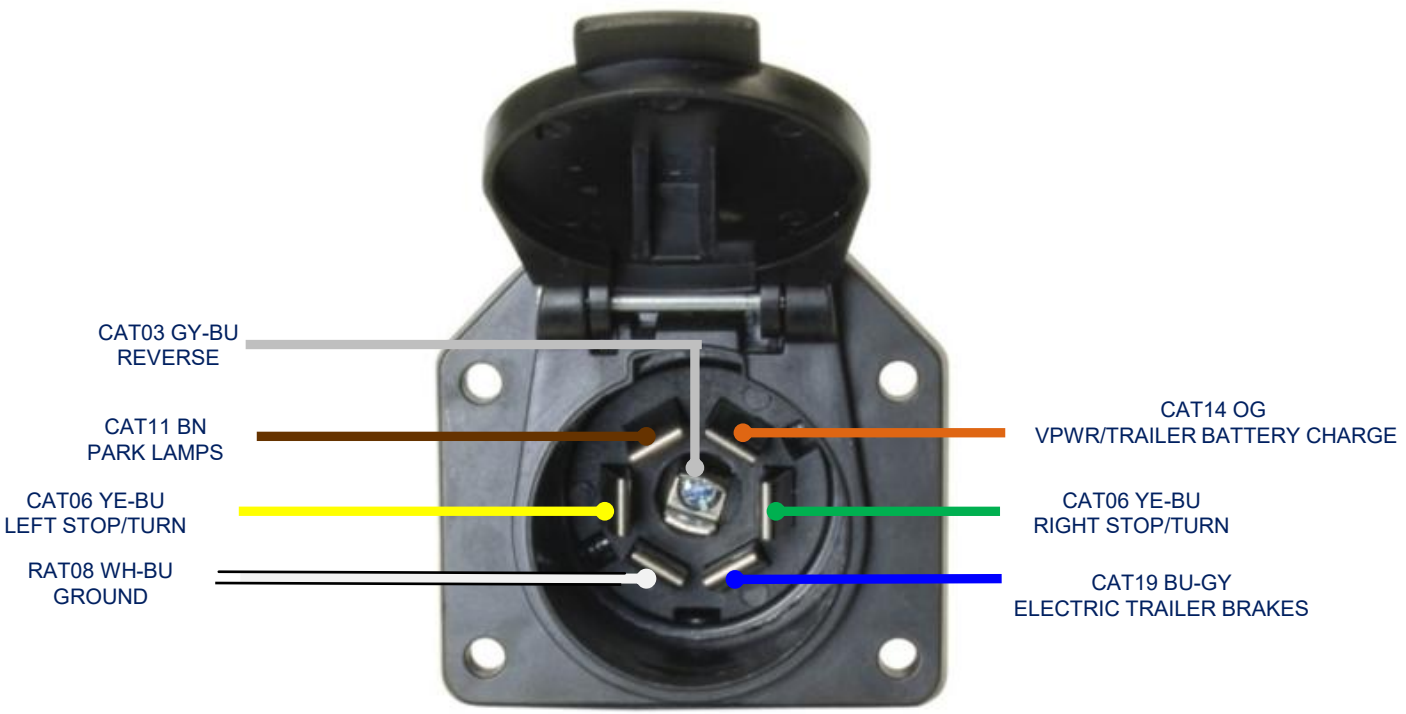
• Additionally, to make the E-Transit more energy-efficient, Final Stage Manufacturers should explore modifications like solar glass and lightweight insulation to lower the vehicle's thermal load, which would maximize battery power for driving.

• Reference the Transit Body and Equipment Mounting Manual for Guidance on ICE variants.

TRANSIT

ELECTRICAL: TRAILER TOW WIRING HARNESS

CIRCUIT NUMBER	CIRCUIT DESCRIPTION	COLOR CODE
CAT06	LEFT STOP/TURN	YE-BU
RAT08	GROUND	WH-BU
CAT19	ELECTRIC TRAILER BRAKES	BU-GY
CAT06	LEFT STOP/TURN	YE-BU
CAT14	VPWR/TRAILER BATTERY CHARGE	OG
CAT11	PARK LAMPS	PARK LAMPS
CAT03	REVERSE	GY-BU



TRANSIT
SEIC / PTO: OPERATION

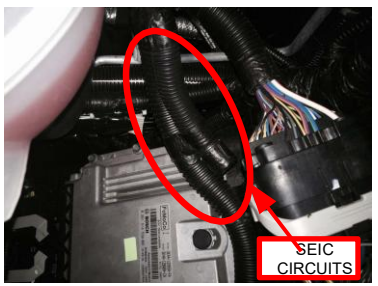
STATIONARY ELEVATED IDLE CONTROL (SEIC)
- A powertrain control module (PCM) strategy that provides elevated engine speed to drive auxiliary commercial equipment such as hydraulic pumps, generators, air compressors; or maintain vehicle battery charge under extreme electrical demands.
- SEIC is standard on Transit for use with FEAD mounted PTOs.

CUSTOMER ACCESS WIRES FOR SEIC AND VSO/CTO/PARK SIGNALS
- Located in the engine compartment, reference images
- The final stage manufacturer or upfitter is required to supply the customer interface equipment.

SEIC OPERATION:
- Intended to be commanded ONLY by applying battery voltage to certain customer access blunt cut wire circuits, and adding a target-speed resistor, and is only available when the vehicle road speed signal is zero.
- Includes a link circuit which changes from open-circuit to ground when enablers are met, that may be used to turn on an indicator lamp, while providing battery power to an aftermarket PTO clutch or solenoid.
- Ramp rates are fixed and cannot be altered by the customer
  - Minimum engine speed ~ 800 RPM
  - Maximum engine speed ~ 2400 RPM

Typical SEIC Engagement Sequence
- Initiating SEIC by applying battery voltage to SEIC-PTO wire immediately commands the PCM to first look for enabling conditions, such as vehicle gearshift selector in PARK, engine at base idle speed of about 650 RPM, etc. A complete list of enablers is provided in the “SEIC Enable/Disable Conditions” section of this bulletin. Once enablers are satisfied then the following takes place:
  1. Command is sent to increases engine speed to 900 RPM standby
  2. The PTO _RELAY low-side driver circuit from open-circuit to ground
  3. Engine speed increases to the target RPM determined by resistor (reference Resistor Chart)

Special Situations - Alternative Calibration
- All Ford vehicles have an “Alternative Calibration’ or ‘ALT-CAL’ installed in the PCM that conditions the powertrain during its early lifetime. It may increase the PARK-idle or Drive-idle speed of the engine, by as small as 50 RPM or by several hundred. It affects SEIC initiation by not letting it activate, because one of the SEIC enablers is having a steady idle speed, generally near 650 RPM. If ‘ALT-CAL’ sets the idle at 700 RPM then SEIC activation will be prevented. ‘ALT-CAL’ is normally removed after 50 key-on starts, or by driving over 5 continuous miles; it is also sometimes erased by disconnecting the battery.



TRANSIT ENGINE COMPARTMENT
SEIC circuit location, found under hood, wrapped in convolute, taped to harness behind coolant reservoir.

Special Situations - Battery Charge Protect Battery charge protect mode is available on 3.5L Gas and 3.5L GTDI gas engine models. On these powertrains, Battery Charge protect mode is determined through resistor selection (Reference Resistor Chart). Note: PTO RPM REQ must have a voltage input between .16 and .20 for BCP to function. When it is switched on the engine speed goes immediately to 600. From this state, the PCM uses battery voltage as well as ambient air temp., engine oil temperature information to raise engine speed higher to maintain a certain battery charge. Maximum engine speed in BCP mode is 1200 rpm. Loss of an operating condition after BCP is engaged will require the BCP switch to be cycled before BCP will re-engage.

SEIC ENABLE/DISABLE CONDITIONS

VEHICLE CONDITIONS TO ENABLE SEIC (ALL ARE REQUIRED)	VEHICLE CONDITIONS THAT DISABLE SEIC (ANY ONE REQUIRED)	GAS ENGINE
PARKING BRAKE APPLIED	PARKING BRAKE DISENGAGED	YES
FOOT OFF OF SERVICE BRAKE	DEPRESSING SERVCE BRAKE	YES[2]
VEHICLE IN PARK (AUTOMATIC)	VEHICLE TAKEN OUT OF PARK	YES
FOOT OFF OF ACCELERATOR PEDAL		YES
VEHICLE SPEED IS 0 MPH (STATIONARY)		YES
ENGINE SPEED AT A STABLE BASE IDLE SPEED		YES[1]
	TRANMISSION OIL TEMPAERATURE (TOT) LIMIT EXCEEDS 240° F	YES[2]
ENGINE COOLANT TEMPERATURE (ECT) 40° F MINIMUM	ENGINE COOLANT TEMPAERATURE LIMIT (ECT)	YES[2]
	CATALYST TEMPERATURE LIMIT	YES[2]

NOTE 1: It a SEIC disabling condition occurs, the engine must be allowed to reach stable base idle before the system can be re-initiated. This could take up to 15 seconds. If an attempt is made to reinitiate SEIC before the engine has reached a stable base idle SEIC will not engage. The operator will have to turn SEIC off. And then back on once the vehicle has reached a stable base idle.

NOTE 2: A "change-of-state” at both the "PTO_REQUEST 1 circuit Is required to re-invoke SEIC. When a disabler is seen by the PCM, the circuit changes from "ground-source "to "open-circuit". After approximately 3 seconds SEIC drops out, returning the engine speed to base idle. To re-initiate SEIC, the operator must open the (SEIC Switch) to apply voltage to both the “PTO_REQUEST 1" input circuit.

SEIC RESISTOR CHART

3.5L iVCT & 3.5 L GTDi		
ENGINE TARGET SPEED (RPM)	RESISTOR (Ω) (5%, 1/4 Watt)	VOLATGE (VOLTS)
700	34467	0.60
800	23434	0.84
900	17251	1.07
1000	13295	1.31
1100	10548	1.54
1200	8528	1.78
1300	6981	2.01
1400	5758	2.25
1500	5240	2.48
1600	3947	2.66
1700	3258	2.95
1800	2671	3.19
1900	2164	3.42
2000	1723	3.66
2100	1335	4.13
2200	991	4.13
2300	684	4.36
2400	409	4.60
2500	-	-
BCP		
700 - 1200*	100K Ω	0.23

* RPM VARIES AS A FUNCTION OF BATTERY STATE OF CHARGE, REFERENCE BCP DESCRPTION

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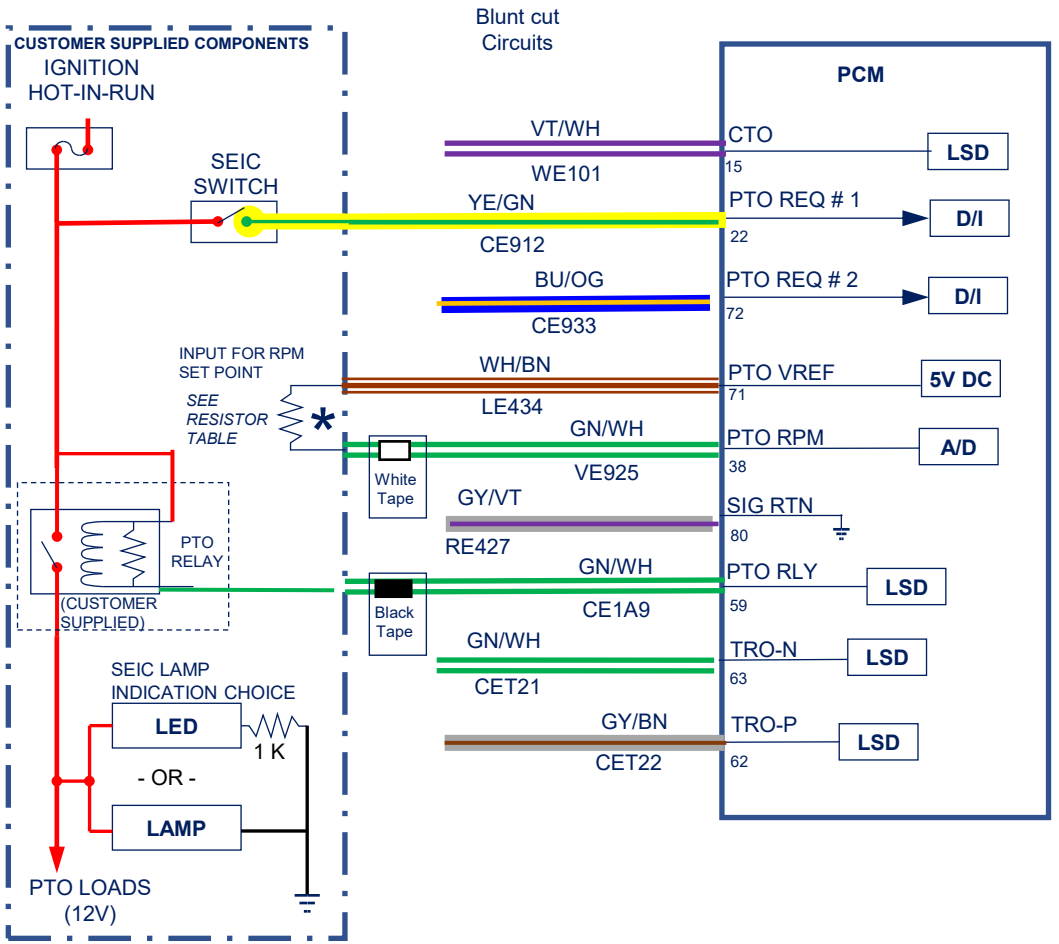
TRANSIT

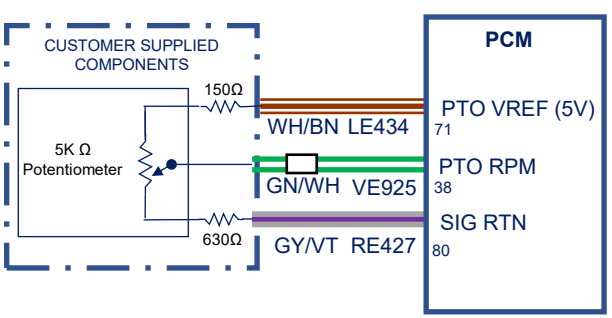
TRANSIT ALL SEIC/BCP INTERFACE 3.5L



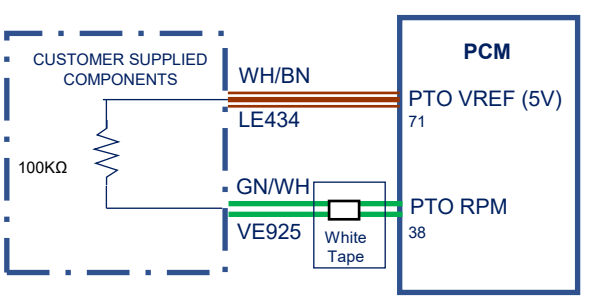
3.5L GAS ALL		
ENGINE TARGET SPEED (RPM)	RESISTOR (Ω) (5%, 1/4 Watt)	VOLATGE (VOLTS)
700	34467	0.60
800	23434	0.84
900	17251	1.07
1000	13295	1.31
1100	10548	1.54
1200	8528	1.78
1300	6981	2.01
1400	5758	2.25
1500	5240	2.48
1600	3947	2.66
1700	3258	2.95
1800	2671	3.19
1900	2164	3.42
2000	1723	3.66
2100	1335	4.13
2200	991	4.13
2300	684	4.36
2400	409	4.60
2500	-	-
BCP		
700 - 1200*	100K Ω	0.23

* RPM VARIES AS A FUNCTION OF BATTERY STATE OF CHARGE, REFERENCE BCP DESCRPTION.

ALTERNATE INPUT FOR RPM SET POINT



FIXED RESISTOR EXAMPLE FOR BCP



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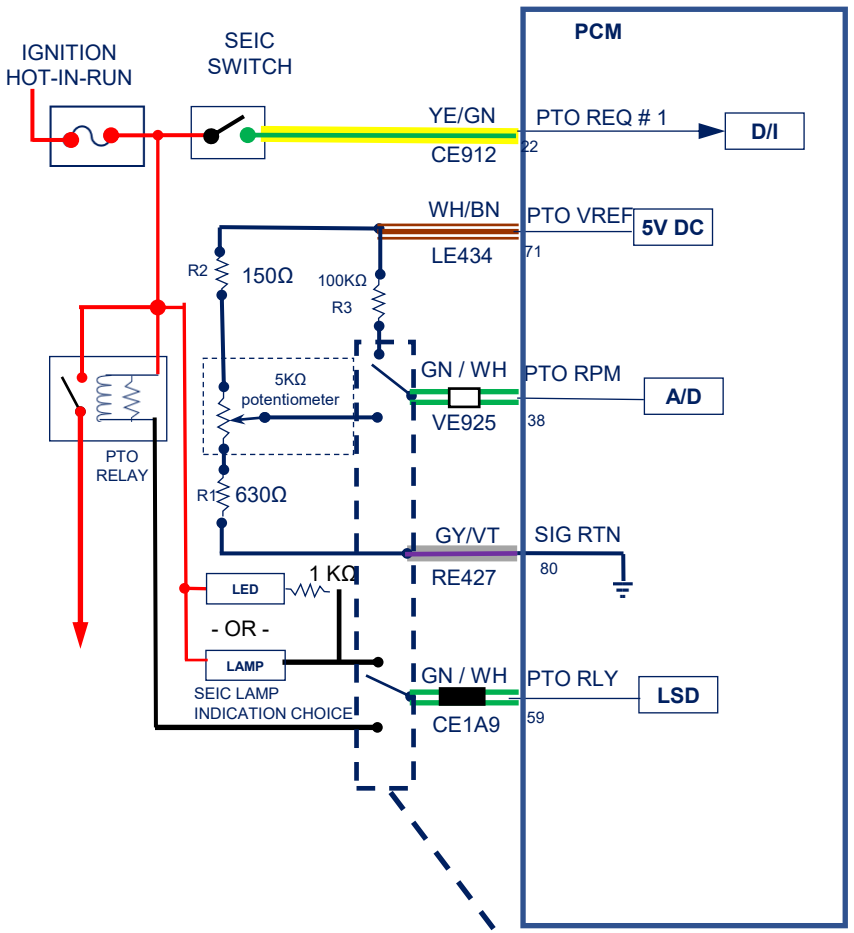
TRANSIT

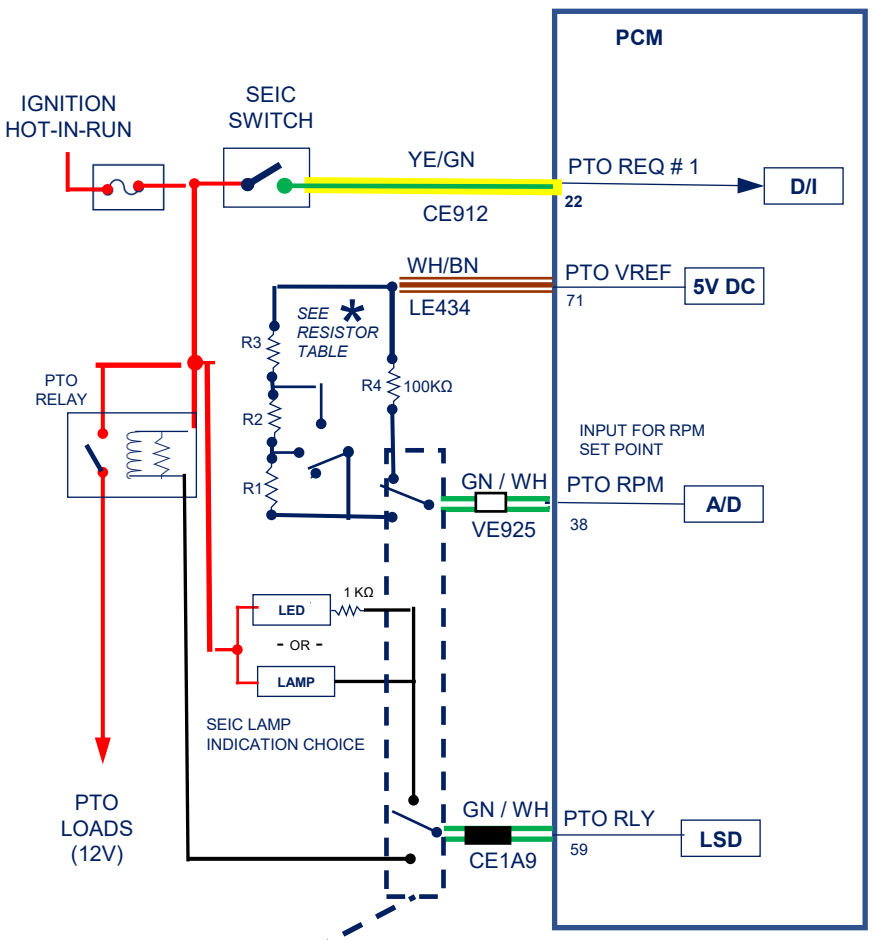
TRANSIT ALL SEIC / BCP INTERFACE: 3.5L GAS

CUSTOMER SUPPLIED COMPONENTS

PTO Multi-Function PTO/BCP with Variable Speed SEIC



PTO Multi-Function PTO/BCP with 3 Speed SEIC



Note: PTO_RPM switch and the PTO RELAY switch are from the same Double Pole Double Throw Switch

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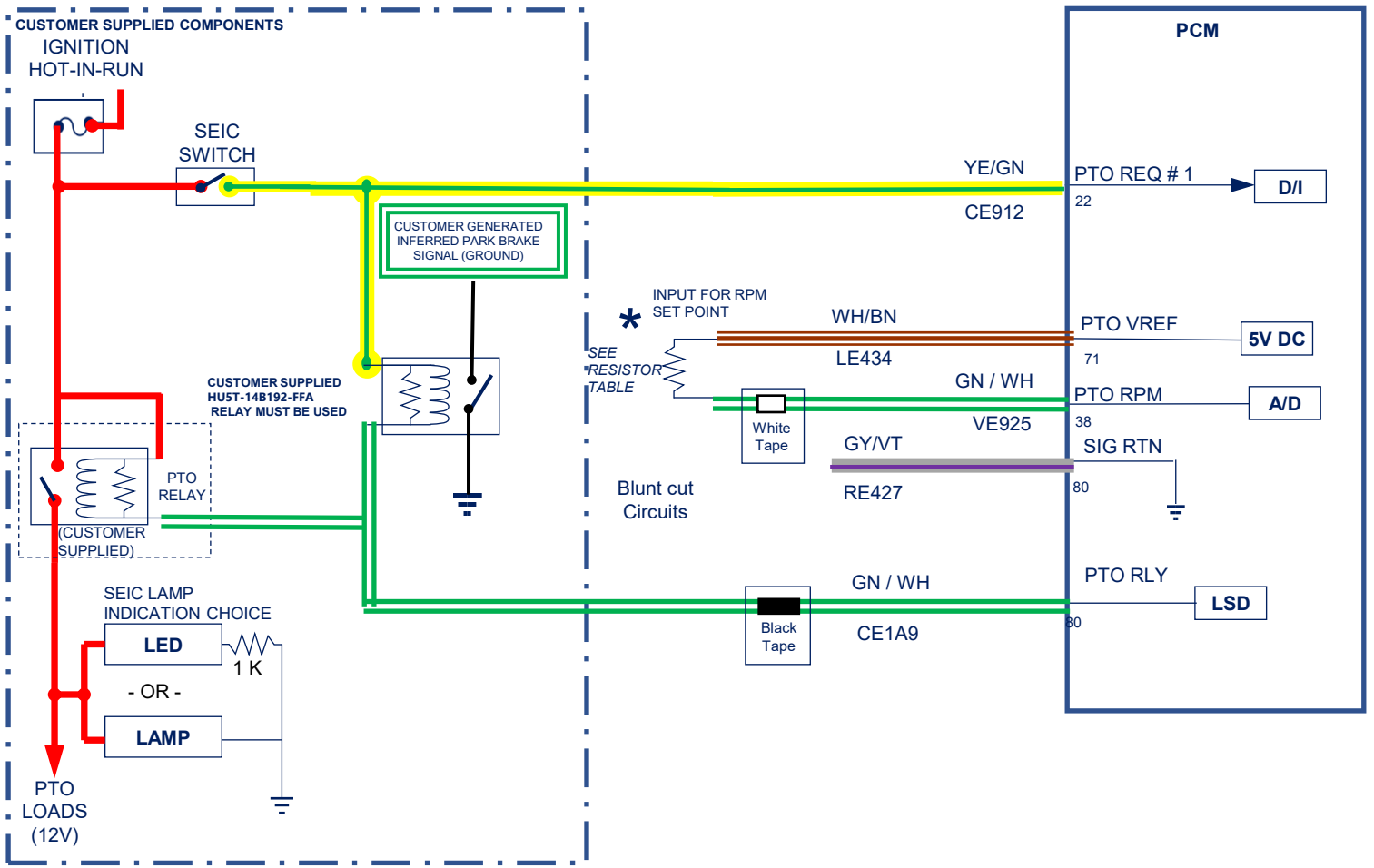
TRANSIT

INFERRED PARK BRAKE GUIDANCE : ALL



For PTO Relay Output to engage in Stationary Elevated Idle Control (SEIC) mode or Battery Charge Protect (BCP) mode, the vehicle's Electric Park Brake (EPB) must be set. If the park brake is released during SEIC or BCP mode, the PTO relay circuit will be automatically disengaged, it will also disengage the customer relay that is supplying the Customer Generated Park Brake Signal (Ground)

TRANSIT
SEIC / PTO: OPERATION

SEIC GENERAL SYSTEM BEHAVIOR

If an SEIC enabling condition is not met upon SEIC initialization:

- SEIC will not initiate. SEIC will require a "change-of-state" (voltage to both the “PTO_REQUEST” and "PTO_RELAY Output" circuits removed completely.) The enabling conditions must be met, and then SEIC and PTO operation may then be reinitiated.

If an SEIC disabler occurs:

- The "PTO_RELAY Output" circuit changes from "ground-source" to “open-circuit". After approximately 3 seconds SEIC drops out, returning the engine speed to base idle. SEIC will require a "change-of-state” (voltage to both the “PTO_REQUEST 1 (PTO)”.

The enabling conditions must be met, and then SEIC and PTO operation may then be reinitiated.

SEIC/PTO strategy function in the PCM is not affected by the loss of vehicle battery electrical power. SEIC Ramp Rate (fixed, not programmable):

- 200 rpm/second.

Correlation between engine speed and resistor values:

- The external voltage source that the aftermarket PTO system designer uses to command SEIC through the "PTO" or "PTO-REQUEST" circuits must be the same as that used by the PCM internally for predictable SEIC function. Reasoning is that a fully-charged vehicle battery fluctuates with ambient temperature.
- If there is a high electrical demand on the chassis battery, such as from aftermarket inverters or generators, etc., the actual elevated idle engine speed may vary with that demand for any given resistance in the SEIC circuit.
- Normal base engine calibration allows approximately +/-50 rpm fluctuation. If any factory vehicle accessories are used during SEIC, e.g. a/c, defroster, etc., then that fluctuation may increase to approximately +/-100 rpm or more.
- The sudden loss of aftermarket PTO hydraulic pressure during SEIC/PTO operation, like a ruptured hose, may send SEIC engine speed to near 3000 rpm. It is recommended that a hydraulic pressure switch linked to SEIC/PTO be added to disable SEIC/PTO when a hose ruptures.
- Because of a service brake circuit characteristic at engine-start, invoking SEIC may cause the diagnostic error code FFG_BOO to get flagged (recorded in the PCM). To avoid this, simply tap the service brake pedal sometime after engine-start and prior to invoking SEIC. Once the code is set, SEIC may not be available until it is erased.
- Gas engines require a "change-of-state" at the PTO-REQUEST 1 (PTO) Output circuit whenever a disabler turns off SEIC (remove battery voltage signal and re-apply).
- For aftermarket remote engine start-stop: a change-of-state is required to get SEIC to function again.

TRANSIT

SEIC / PTO: CIRCUIT DESCRIPTIONS

SEIC CIRCUIT DESCRIPTIONS - All circuits lead back to pins on the PCM		
CIRCUIT INTENT	**WIRE TAG**	**DESCRIPTION**
INPUT (VPWR)	PTO_REQUEST1	3.5L - PCM PIN C1551B-21 **CIRCUIT NO. CE913** / WIRE COLOR: BLUE 3.5L - ~~PCM PIN **C175B-84 CIRCUIT NO. CE913** WIRE COLOR: BLUE~~ • Applying vehicle battery voltage to this wire begins SEIC process. • Signals PCM to enter SEIC strategy. • Verifies safety enablers. • Elevates engine speed to target found at PTO-RPM circuit. • Invokes the PTO_RELAY circuit when safety enablers are met. • Looks for the target engine speed requested at the PTO_RPM circuit using a resistor or POT.
INPUT (VPWR)	PTO_REQUEST2	3.5L - PCM PIN **C1551B-~~91~~** 20 **CIRCUIT NO.** CE914 WIRE COLOR: GREEN ~~/ 3.7L - PCM PIN **C175B-88 CIRCUIT NO. VE935** WIRE COLOR: GREEN~~ - Not Used
OUTPUT	PTO_RELAY	3.5L - PCM PIN **C1551B-~~80~~** 45 **CIRCUIT NO. CE326** WIRE COLOR: ~~GREEN/VIOLET~~ BLUE/~~WHITE~~ ~~/ 3.5L - PCM PIN **C175B-96 CIRCUIT NO. CE326** WIRE COLOR: GREEN/VIOLET~~ • A low-side driver, changing from "open-circuit" to "ground" indicating that the engine is ready for the PTO operation to begin and that a PTO load may be applied. • Intended for powering a PTO indicator lamp or turn on a relay coil (not to exceed 1 amp). • LED lights require adding a resistor in series.
INPUT (resistor)	PTO_RPM	3.5L - PCM PIN **C1551B-33** 25 **CIRCUIT NO. ~~C~~**VE925 WIRE COLOR: GREEN / WHITE ~~/ 3.5L PCM PIN **C175B-85 CIRCUIT NO. CE925** WIRE COLOR: GREEN / WHITE~~ • Add a resistor or a potentiometer to obtain fixed or variable engine target speed. • Combine in circuit with PTO_VREF (+5V). • Speed range available: 910 rpm to 2400 rpm
OUTPUT	PTO_VREF	3.5L ~~GTDI~~ - PCM PIN **C1551B-~~11~~** 82 **CIRCUIT NO. LE~~458~~** 423 WIRE COLOR: ~~BLUE / WHITE / 3.5L GAS - PCM PIN **C175B-52 CIRCUIT NO. LE458** WIRE COLOR: BLUE / WHITE~~ GREEN/VIOLET • A 5-volt reference, buffered against shorts to ground or power, used to complete the resistor circuit for engine speed selection.
		3.5L - PCM PIN **C1551B-~~18~~** 28 **CIRCUIT NO. RE407** WIRE COLOR: ~~YELLOW / VIOLET~~ / 3.5L -BLUE/GRAY ~~PCM PIN **C175B-51 CIRCUIT NO. RE407** WIRE COLOR: YELLOW~~

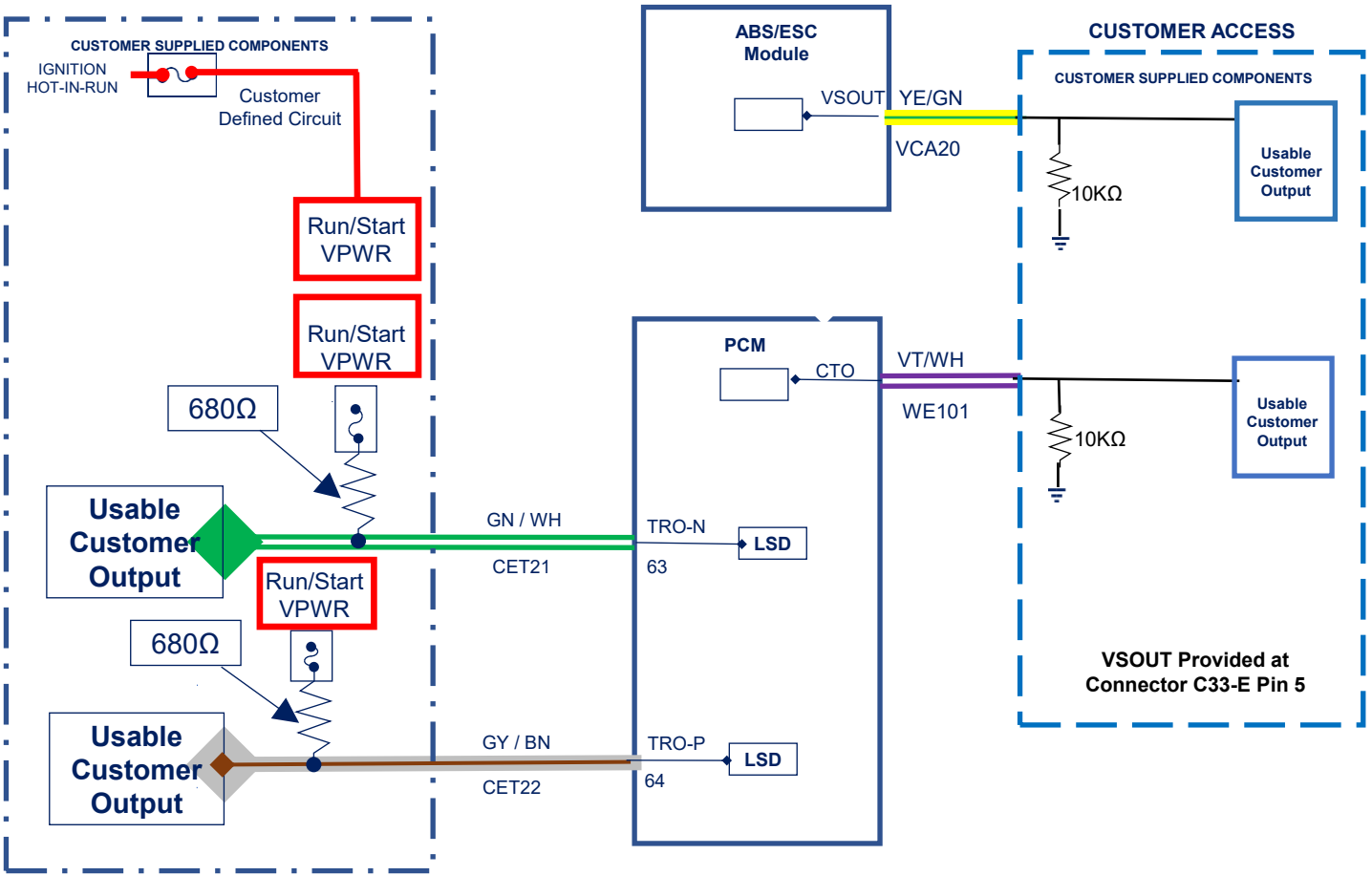
BATTERY VOLTAGE SOURCES (VPWR) - Refer to the Body Equipment Mounting Manual for more information.		
CIRCUIT INTENT	**WIRE TAG**	**DESCRIPTION**
HOT-AT-ALL-TIMES		**CIRCUIT NO. SB153** / Fused 40-amp circuit (F53) / Requires modified vehicle wiring option (53K). Located: • Vehicle Interface Connector C11-H (4-PIN CONNECTOR), PIN #4, at firewall on driver side of the engine compartment • Vehicle Interface Connector C12-A (6-PIN CONNECTOR), PIN #3, behind left side of center stack. • Vehicle Interface Connector C33-C (6-PIN CONNECTOR), PIN #3 , behind Passenger side airbag, above glove box. **CIRCUIT NO. SB118** CONNECTOR: C33-C PIN:6 / Fused 40-amp circuit (F18) Located: • Vehicle Interface Connector C33-C (6-PIN CONNECTOR), PIN #6, behind Passenger Side Airbag, above glove box. • Requires modified vehicle wiring option (53K) Customer Connection Point / Fused 60-amp VBATT feed. Located: Right side rear of driver seat pedestal.
IGNITION HOT-IN-RUN		**CIRCUIT NO. CB12~~1~~ F8 CONNECTOR: C33-E PIN:6** / Fused 10-amp ignition circuit. Located: Vehicle Interface Connector C33-E (~~6~~ 10-PIN CONNECTOR) on right side of driver seat pedestal beneath driver seat.
		CIRCUIT NO. CAC14 / Fused 40-amp circuit (F52) / Requires modified vehicle wiring option (53K) Located: • Vehicle Interface Connector C11-H (4-PIN CONNECTOR), PIN #1, at firewall on driver side of the engine compartment • Vehicle Interface Connector C12-A (6-PIN CONNECTOR), PIN #4, behind left side of center stack • Vehicle Interface Connector C33-C (6-PIN CONNECTOR), PIN #5, behind Passenger Side Airbag, above glove box.
UPFITTER SWITCH OUTPUT: IGN-HOT/ACC LOCATED: VEHICLE INTERFACE CONNECTOR C33-H (4-PIN CONNECTOR) RIGHT SIDE OF DRIVER • REQUIRES UPFITTER SWITCH OPTION 67C	AUX-1	[20-amp] **CIRCUIT NO. ~~CAC05~~ CAC01 CONNECTOR: ~~C33-H~~ C2237 PIN:1**
	AUX-2	[40 ~~20~~-amp] **CIRCUIT NO. ~~CAC06~~ CAC02 CONNECTOR: C33-H PIN:~~2~~ 3**
	AUX-3	[40 ~~20~~-amp] **CIRCUIT NO. ~~CAC07~~ CAC03 CONNECTOR: C33-H PIN:~~3~~ 4**
	AUX-4	[20-amp] **CIRCUIT NO. ~~CAC08~~ CAC04 CONNECTOR: ~~C33-H PIN:4~~ C2237 PIN:2**

TRANSIT

SEIC / PTO: CIRCUIT DESCRIPTIONS

CIRCUIT INTENT	WIRE TAG	DESCRIPTION
OUTPUT PARK-ONLY	TRO-P	3.5L - PCM PIN C1551B-~~40~~ 64 CIRCUIT NO. CET22 WIRE COLOR: GRAY / BROWN
OUTPUT NEUTRAL-ONLY	TRO-N	3.5L - PCM PIN C1551B-~~81~~ 63 CIRCUIT NO. CET21 WIRE COLOR: GREEN / WHITE
OUTPUT VEHICLE SPEED	VSOUT	CIRCUIT NO. VMC05 CONNECTOR: C33-E PIN 4~~:5~~ SEE BEMM FOR SIGNAL SPECIFICATION.
OUTPUT ENGINE SPEED	CTO	3.5L - PCM Pin C1551B-~~40~~ 30 Circuit No. VMC02 Wire Color: Blue / White
PASS-THRU		CIRCUIT NO. CAC17, FOUND AT: - VEHICLE INTERFACE CONNECTOR C11-H (4-PIN CONNECTOR), PIN #2, AT FIREWALL ON DRIVER SIDE OF THE ENGINE COMPARTMENT - VEHICLE INTERFACE CONNECTOR C12-A (6-PIN CONNECTOR), PIN #1, BEHIND LEFT SIDE OF CENTER STACK. - REQUIRES MODIFIED VEHICLE WIRING OPTION (53K)
PASS-THRU		CIRCUIT NO. CAC18, FOUND AT: - VEHICLE INTERFACE CONNECTOR C11-H (4-PIN CONNECTOR), PIN #3, AT FIREWALL ON DRIVER SIDE OF THE ENGINE COMPARTMENT - VEHICLE INTERFACE CONNECTOR C12-A (6-PIN CONNECTOR), PIN #2, BEHIND LEFT SIDE OF CENTER STACK. - REQUIRES MODIFIED VEHICLE WIRING OPTION (53K)

TRANSIT
CTO (CLEAN TACHOMETER OUTPUT) – VSOUT (VEHICLE SPEED OUTPUT)
SEIC / PTO: TRO-P & TRO-N SIGNALS (TRANSMISSION RANGE OUTPUT)



Pull-up Circuit Resistor Required.

This output will not function correctly without the external load resistor.

An output from the PCM that indicates when the Transmission Range Sensor is indicating that the transmission is in either the Park or Neutral position.
The low-side driver (160 mA max) in the PCM will pull this output to ground when active (i.e. when trans selector is in the Park or Neutral position).
To properly reference this output, the customer-supplied external controller needs to pull this output up to VPWR with a 680 Ohm resistor. Thus, when the output is active, the voltage at this output will be zero volts. When this output is not active, the output will be pulled up to VPWR by the 680 Ohm

Body Builders Layout Book

TRANSIT

CHANGE CONTROL

REVISION: